zadani pro, "Adamová, Marie ", 105005

```
Vyjdrete jako elementarni funkci integral z
((3*x^3-13*x^2+19*x-8)*x)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{x\,(3\,x^3-13\,x^2+19\,x-8)}{(x-2)^2\,(x-1)\,(x^2-2\,x+2)}\,dx=\int \frac{2}{(x-2)^2}+\frac{1}{x-1}+\frac{2\,x+1}{x^2-2\,x+2}\,dx\right.$$

$$\left.=-\frac{2}{x-2}+\ln(x-1)+\ln(x^2-2\,x+2)+3\arctan(x-1)\right)$$

line := "PMMAT2| 99521|Albrechtová, Kristýna|zk|ESF B-HPS NH [sem 6]

zadani pro, "Albrechtová, Kristýna", 99521

```
Vyjdrete jako elementarni funkci integral z
(4*x^3-16*x^2+24*x-8)/((x-2)^2*(x^2-4*x+8))
```

$$\left(\int \frac{4\,(-4\,x^2+6\,x-2+x^3)}{(x-2)^2\,(x^2-4\,x+8)}\,dx=\int \frac{2}{(x-2)^2}+\frac{2}{x-2}+\frac{2\,x+2}{x^2-4\,x+8}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-2)+\ln(x^2-4\,x+8)+3\arctan\left(\frac{x}{2}-1\right)$$

line := "PMMAT2|100108|Babák, Jan |zk|ESF M-HPS RRS [sem 6]

zadani pro, "Babák, Jan ", 100108

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-19*x^3+27*x^2-7*x-9)/((x-1)^2*(x-3)*(x^2-4*x+5))
```

$$\left(\int \frac{4\,x^4-19\,x^3+27\,x^2-7\,x-9}{(x-1)^2\,(x-3)\,(x^2-4\,x+5)}\,dx=\int \frac{1}{(x-1)^2}+\frac{3}{x-3}+\frac{x+3}{x^2-4\,x+5}\,dx\right.$$

$$\left.=-\frac{1}{x-1}+3\ln(x-3)+\frac{1}{2}\ln(x^2-4\,x+5)+5\arctan(x-2)\right)$$

line :=
"PMMAT2|174666|Bednáø, Martin |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Bednáø, Martin ", 174666

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line :=

"PMMAT2|174933|Benda, Vladislav |zk|ESF M-EKT EKON [sem 2]

zadani pro, "Benda, Vladislav ", 174933

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.\right) = -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|172164|Beníèková, Petra |zk|ESF B-HPS FP [sem 2]

zadani pro, "Beníèková, Petra ", 172164

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.\right) = -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|174769|Blaha, Robert |zk|ESF M-HPS FP [sem 2]

zadani pro, "Blaha, Robert ", 174769

```
Vyjdrete jako elementarni funkci integral z
(5*x^4-39*x^3+124*x^2-176*x+78)/((x-2)^2*(x-3)*(x^2-6*x+18))
```

$$\left(\int \frac{5\,x^4-39\,x^3+124\,x^2-176\,x+78}{(x-2)^2\,(x-3)\,(x^2-6\,x+18)}\,dx =\right.$$

$$\left.\int \frac{1}{(x-2)^2}+\frac{2}{x-3}+\frac{3\,x+1}{x^2-6\,x+18}\,dx\right) =$$

$$-\frac{1}{x-2}+2\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+\frac{10}{3}\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|151092|Cífka, Michal |zk|ESF B-EKM POH [sem 2]

zadani pro, "Cífka, Michal ", 151092

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2|171784|Diani¹ka, Róbert |zk|ESF B-HPS FP [sem 2]

zadani pro, "Diani¹ka, Róbert ", 171784

```
Vyjdrete jako elementarni funkci integral z
((3*x^2-5*x+3)*x)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{x\,(3\,x^2-5\,x+3)}{(x-1)^2\,(x^2-2\,x+2)}\,dx=\int \frac{1}{(x-1)^2}+\frac{2}{x-1}+\frac{x+2}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{1}{x-1}+2\ln(x-1)+\frac{1}{2}\ln(x^2-2\,x+2)+3\arctan(x-1)$$

line := "PMMAT2|136915|Dole¾el, Tomá¹ |zk|ESF B-HPS NH [sem 4]

zadani pro, "Dole¾el, Tomá¹ ", 136915

```
Vyjdrete jako elementarni funkci integral z
(5*x^4-37*x^3+122*x^2-201*x+135)/((x-2)^2*(x-1)*(x^2-6*x+13))
```

$$\left(\int \frac{5\,x^4-37\,x^3+122\,x^2-201\,x+135}{(x-2)^2\,(x-1)\,(x^2-6\,x+13)}\,dx=\right.$$

$$\left.\int \frac{1}{(x-2)^2}+\frac{3}{x-1}+\frac{2\,x+2}{x^2-6\,x+13}\,dx\right)=$$

$$-\frac{1}{x-2}+3\ln(x-1)+\ln(x^2-6\,x+13)+4\arctan\left(\frac{x}{2}-\frac{3}{2}\right)$$

line := "PMMAT2|171845|Fajtová, Veronika |zk|ESF B-HPS FP [sem 2]

zadani pro, "Fajtová, Veronika ", 171845

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9\,x^3+14\,x^2-8\,x+2+2\,x^4)}{(x-2)^2\,(x-1)\,(x^2-2\,x+2)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2\,x+2}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2\,x+2)+4\arctan(x-1)$$

line := "PMMAT2|172168|Ferèák, Ondrej |zk|ESF B-HPS NH [sem 2]

zadani pro, "Ferèák, Ondrej ", 172168

```
Vyjdrete jako elementarni funkci integral z
(5*x^3-33*x^2+81*x-72)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{5x^3-33x^2+81x-72}{(x-3)^2\,(x^2-6x+18)}\,dx = \int \frac{1}{(x-3)^2}+\frac{2}{x-3}+\frac{3x+2}{x^2-6x+18}\,dx\right) =$$

$$-\frac{1}{x-3}+2\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+\frac{11}{3}\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|172186|Florová, Zuzana |zk|ESF B-HPS RRS [sem 2]

zadani pro, "Florová, Zuzana ", 172186

```
Vyjdrete jako elementarni funkci integral z
(3*x^4-9*x^3+13*x^2-7*x-4)/((x-1)^2*(x-2)*(x^2-2*x+5))
```

$$\left(\int \frac{3x^4-9x^3+13x^2-7x-4}{(x-1)^2\,(x-2)\,(x^2-2x+5)}\,dx = \int \frac{1}{(x-1)^2}+\frac{2}{x-2}+\frac{x+2}{x^2-2x+5}\,dx\right.$$

$$\left.\right) = -\frac{1}{x-1}+2\ln(x-2)+\frac{1}{2}\ln(x^2-2x+5)+\frac{3}{2}\arctan\left(\frac{x}{2}-\frac{1}{2}\right)$$

line := "PMMAT2|135083|Havli¹ta, Luká¹ |zk|ESF B-HPS NH [sem 2]

zadani pro, "Havli¹ta, Luká¹ ", 135083

```
Vyjdrete jako elementarni funkci integral z
(2*x^3-2*x^2-x+3)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{2x^3-2x^2-x+3}{(x-1)^2\,(x^2-2x+2)}\,dx = \int \frac{2}{(x-1)^2}+\frac{1}{x-1}+\frac{x+1}{x^2-2x+2}\,dx\right) =$$

$$-\frac{2}{x-1}+\ln(x-1)+\frac{1}{2}\ln(x^2-2x+2)+2\arctan(x-1)$$

line := "PMMAT2|171776|Holasová, Pavla |zk|ESF B-HPS FP [sem 2]

zadani pro, "Holasová, Pavla ", 171776

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9x^3+14x^2-8x+2+2x^4)}{(x-2)^2\,(x-1)\,(x^2-2x+2)}\,dx =\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2x+2}{x^2-2x+2}\,dx\right) =$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2x+2)+4\arctan(x-1)$$

line := "PMMAT2|171762|Hurníková, Tereza |zk|ESF B-HPS FP [sem 2]

zadani pro, "Hurníková, Tereza ", 171762

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right)=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2| 99517|Charvát, Ondøej |zk|ESF B-HPS RRS [sem 2]'

zadani pro, "Charvát, Ondøej ", 99517

```
Vyjdrete jako elementarni funkci integral z
(6*x^4-44*x^3+128*x^2-211*x+196)/((x-3)^2*(x-2)*(x^2-2*x+10))
```

$$\left(\int \frac{6\,x^4-44\,x^3+128\,x^2-211\,x+196}{(x-3)^2\,(x-2)\,(x^2-2\,x+10)}\,dx=\int \frac{1}{(x-3)^2}+\frac{3}{x-2}+\frac{3\,x+3}{x^2-2\,x+10}\,dx\right)=-\frac{1}{x-3}+3\ln(x-2)+\frac{3}{2}\ln(x^2-2\,x+10)+2\arctan\left(\frac{x}{3}-\frac{1}{3}\right)$$

line := "PMMAT2|174783|Jakubcová, Simona |zk|ESF M-HPS HOSP\
sem 2]"

zadani pro, "Jakubcová, Simona ", 174783

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right)=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2| 73899|Jurèek, Daniel |zk|ESF B-HPS VEK [sem 6]

zadani pro, "Jurèek, Daniel ", 73899

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2|171933|Kamenská, Katarína |zk|ESF B-HPS FP [sem 2]'

zadani pro, "Kamenská, Katarína ", 171933

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2|170527|Kantor, Ondøej |zk|ESF B-HPS FP [sem 2]'

zadani pro, "Kantor, Ondøej ", 170527

```
Vyjdrete jako elementarni funkci integral z
(3*x^4-9*x^3+13*x^2-7*x-4)/((x-1)^2*(x-2)*(x^2-2*x+5))
```

$$\left(\int \frac{3\,x^4-9\,x^3+13\,x^2-7\,x-4}{(x-1)^2\,(x-2)\,(x^2-2\,x+5)}\,dx=\int \frac{1}{(x-1)^2}+\frac{2}{x-2}+\frac{x+2}{x^2-2\,x+5}\,dx\right.$$

$$\left.=-\frac{1}{x-1}+2\ln(x-2)+\frac{1}{2}\ln(x^2-2\,x+5)+\frac{3}{2}\arctan\left(\frac{x}{2}-\frac{1}{2}\right)\right)$$

line :=

"PMMAT2|174836|Kapoun, Vítìzslav |zk|ESF M-HPS VEK [sem 2]

zadani pro, "Kapoun, Vítìzslav ", 174836

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9\,x^3+14\,x^2-8\,x+2+2\,x^4)}{(x-2)^2\,(x-1)\,(x^2-2\,x+2)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2\,x+2}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2\,x+2)+4\arctan(x-1)$$

line :=

"PMMAT2|174675|Kedroò, Milan |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Kedroò, Milan ", 174675

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right)$$

$$= -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|191617|Klimková, Jana |zk|ESF B-HPS FP [sem 2]

zadani pro, "Klimková, Jana ", 191617

```
Vyjdrete jako elementarni funkci integral z
(5*x^3-22*x^2+40*x-28)/((x-2)^2*(x^2-4*x+8))
```

$$\left(\int \frac{5\,x^3-22\,x^2+40\,x-28}{(x-2)^2\,(x^2-4\,x+8)}\,dx = \int \frac{1}{(x-2)^2}+\frac{3}{x-2}+\frac{2\,x+3}{x^2-4\,x+8}\,dx\right) =$$

$$-\frac{1}{x-2}+3\ln(x-2)+\ln(x^2-4\,x+8)+\frac{7}{2}\arctan\left(\frac{x}{2}-1\right)$$

line :=

"PMMAT2|174818|Kopr, Eduard |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Kopr, Eduard ", 174818

```
Vyjdrete jako elementarni funkci integral z
(2*x^3-2*x^2-x+3)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{2\,x^3-2\,x^2-x+3}{(x-1)^2\,(x^2-2\,x+2)}\,dx = \int \frac{2}{(x-1)^2}+\frac{1}{x-1}+\frac{x+1}{x^2-2\,x+2}\,dx\right) =$$

$$-\frac{2}{x-1}+\ln(x-1)+\frac{1}{2}\ln(x^2-2\,x+2)+2\arctan(x-1)$$

line :=

"PMMAT2|174678|Ko¹íèková, Irena |zk|ESF M-EKM POH [sem 2]

zadani pro, "Ko¹íèková, Irena ", 174678

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line :=
"PMMAT2|174797|Kozáèková, Barbora |zk|ESF M-HPS RRS [sem 2]

zadani pro, "Kozáèková, Barbora ", 174797

```
Vyjdrete jako elementarni funkci integral z
(5*x^4-29*x^3+66*x^2-74*x+38)/((x-2)^2*(x-1)*(x^2-4*x+5))
```

$$\left(\int \frac{5\,x^4-29\,x^3+66\,x^2-74\,x+38}{(x-2)^2\,(x-1)\,(x^2-4\,x+5)}\,dx=\int \frac{2}{(x-2)^2}+\frac{3}{x-1}+\frac{2\,x+3}{x^2-4\,x+5}\,dx\right.$$

$$\left.=-\frac{2}{x-2}+3\ln(x-1)+\ln(x^2-4\,x+5)+7\arctan(x-2)\right)$$

line := "PMMAT2| 78782|Kozel, Petr |zk|ESF B-HPS RRS [sem 4]

zadani pro, "Kozel, Petr ", 78782

```
Vyjdrete jako elementarni funkci integral z
(3*x^4-19*x^3+44*x^2-26*x-38)/((x-2)^2*(x-3)*(x^2-4*x+13))
```

$$\left(\int \frac{3\,x^4-19\,x^3+44\,x^2-26\,x-38}{(x-2)^2\,(x-3)\,(x^2-4\,x+13)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{1}{x-3}+\frac{2\,x+1}{x^2-4\,x+13}\,dx\right)=$$

$$-\frac{2}{x-2}+\ln(x-3)+\ln(x^2-4\,x+13)+\frac{5}{3}\arctan\left(\frac{x}{3}-\frac{2}{3}\right)$$

line := "PMMAT2| 99730|Kr¹ková, Marie |zk|ESF B-HPS NH [sem 2]

zadani pro, "Kr¹ková, Marie ", 99730

```
Vyjdrete jako elementarni funkci integral z
(2*x^4-7*x^3+12*x^2-2*x-23)/((x-1)^2*(x-3)*(x^2-2*x+10))
```

$$\left(\int \frac{2\,x^4-7\,x^3+12\,x^2-2\,x-23}{(x-1)^2\,(x-3)\,(x^2-2\,x+10)}\,dx=\right.$$

$$\left.\int \frac{1}{(x-1)^2}+\frac{1}{x-3}+\frac{x+1}{x^2-2\,x+10}\,dx\right)=$$

$$-\frac{1}{x-1}+\ln(x-3)+\frac{1}{2}\ln(x^2-2\,x+10)+\frac{2}{3}\arctan\left(\frac{x}{3}-\frac{1}{3}\right)$$

line := "PMMAT2|173143|Kuèerová, Petra |zk|ESF M-HPS FP [sem 2]

zadani pro, "Kuèerová, Petra ", 173143

```
Vyjdrete jako elementarni funkci integral z
(2*x^4-7*x^3+12*x^2-2*x-23)/((x-1)^2*(x-3)*(x^2-2*x+10))
```

$$\left(\int \frac{2x^4-7x^3+12x^2-2x-23}{(x-1)^2\,(x-3)\,(x^2-2x+10)}\,dx = \int \frac{1}{(x-1)^2}+\frac{1}{x-3}+\frac{x+1}{x^2-2x+10}\,dx\right) =$$

$$-\frac{1}{x-1}+\ln(x-3)+\frac{1}{2}\ln(x^2-2x+10)+\frac{2}{3}\arctan\left(\frac{x}{3}-\frac{1}{3}\right)$$

line := "PMMAT2|172059|Kudlová, Monika |zk|ESF B-EKM POH [sem 2]

zadani pro, "Kudlová, Monika ", 172059

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13x^2+33x-27+2x^3)}{(x-3)^2\,(x^2-6x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3x+3}{x^2-6x+18}\,dx\right) = -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|171779|Kusák, Roman |zk|ESF B-EKM POH [sem 2]

zadani pro, "Kusák, Roman ", 171779

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-26*x^3+70*x^2-78*x+2)/((x-2)^2*(x-3)*(x^2-4*x+13))
```

$$\left(\int \frac{2\,(-13x^3+35x^2-39x+1+2x^4)}{(x-2)^2\,(x-3)\,(x^2-4x+13)}\,dx = \int \frac{2}{(x-2)^2}+\frac{2}{x-3}+\frac{2x+2}{x^2-4x+13}\,dx\right) =$$

$$-\frac{2}{x-2}+2\ln(x-3)+\ln(x^2-4x+13)+2\arctan\left(\frac{x}{3}-\frac{2}{3}\right)$$

line := "PMMAT2|172078|Lízalová, Eva |zk|ESF B-HPS RRS [sem 2]

zadani pro, "Lízalová, Eva ", 172078

```
Vyjdrete jako elementarni funkci integral z
(2*x^4-8*x^3+12*x^2-x-10)/((x-1)^2*(x-2)*(x^2-4*x+8))
```

$$\left(\int \frac{2x^4-8x^3+12x^2-x-10}{(x-1)^2(x-2)(x^2-4x+8)}\,dx = \int \frac{1}{(x-1)^2}+\frac{1}{x-2}+\frac{x+1}{x^2-4x+8}\,dx\right.$$
$$\left.= -\frac{1}{x-1}+\ln(x-2)+\frac{1}{2}\ln(x^2-4x+8)+\frac{3}{2}\arctan\left(\frac{x}{2}-1\right)\right)$$

line := "PMMAT2|174665|Lorenc, Jan |zk|ESF M-EKM POH [sem 2]

zadani pro, "Lorenc, Jan ", 174665

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-11*x^3+15*x^2-5*x-11)/((x-1)^2*(x-2)*(x^2-2*x+5))
```

$$\left(\int \frac{4x^4-11x^3+15x^2-5x-11}{(x-1)^2(x-2)(x^2-2x+5)}\,dx = \int \frac{2}{(x-1)^2}+\frac{3}{x-2}+\frac{x+3}{x^2-2x+5}\,dx\right.$$
$$\left.= -\frac{2}{x-1}+3\ln(x-2)+\frac{1}{2}\ln(x^2-2x+5)+2\arctan\left(\frac{x}{2}-\frac{1}{2}\right)\right)$$

line := "PMMAT2| 99655|Malík, David |zk|ESF M-EKM POH [sem 6]

zadani pro, "Malík, David ", 99655

```
Vyjdrete jako elementarni funkci integral z
(6*x^4-53*x^3+182*x^2-308*x+233)/((x-3)^2*(x-1)*(x^2-6*x+10))
```

$$\left(\int \frac{6x^4-53x^3+182x^2-308x+233}{(x-3)^2(x-1)(x^2-6x+10)}\,dx = \right.$$
$$\left.\int \frac{1}{(x-3)^2}+\frac{3}{x-1}+\frac{3x+3}{x^2-6x+10}\,dx\right) =$$
$$-\frac{1}{x-3}+3\ln(x-1)+\frac{3}{2}\ln(x^2-6x+10)+12\arctan(x-3)$$

line := "PMMAT2|137128|Markusík, David |zk|ESF M-HPS FP [sem 4]

zadani pro, "Markusík, David ", 137128

```
Vyjdrete jako elementarni funkci integral z
(6*x^4-53*x^3+182*x^2-308*x+233)/((x-3)^2*(x-1)*(x^2-6*x+10))
```

$$\left(\int \frac{6x^4-53x^3+182x^2-308x+233}{(x-3)^2(x-1)(x^2-6x+10)}\,dx = \right.$$
$$\left.\int \frac{1}{(x-3)^2}+\frac{3}{x-1}+\frac{3x+3}{x^2-6x+10}\,dx\right) =$$
$$-\frac{1}{x-3}+3\ln(x-1)+\frac{3}{2}\ln(x^2-6x+10)+12\arctan(x-3)$$

line := "PMMAT2|100118|Miklas, David |zk|ESF B-HPS FP [sem 6]

zadani pro, "Miklas, David ", 100118

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-30*x^3+92*x^2-112*x+12)/((x-2)^2*(x-3)*(x^2-6*x+18))
```

$$\left(\int \frac{2\,(-15\,x^3+46\,x^2-56\,x+6+2\,x^4)}{(x-2)^2\,(x-3)\,(x^2-6\,x+18)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-3}+\frac{2\,x+2}{x^2-6\,x+18}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-3)+\ln(x^2-6\,x+18)+\frac{8}{3}\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|137816|Mlynka, Jaroslav |zk|ESF M-HPS HOSP [sem 4]

zadani pro, "Mlynka, Jaroslav ", 137816

```
Vyjdrete jako elementarni funkci integral z
(2*x^3-2*x^2-x+3)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{2\,x^3-2\,x^2-x+3}{(x-1)^2\,(x^2-2\,x+2)}\,dx=\int \frac{2}{(x-1)^2}+\frac{1}{x-1}+\frac{x+1}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{2}{x-1}+\ln(x-1)+\frac{1}{2}\ln(x^2-2\,x+2)+2\arctan(x-1)$$

line := "PMMAT2|107842|Navrkal, Ondøej |zk|ESF M-EKM POH [sem 2]

zadani pro, "Navrkal, Ondøej ", 107842

```
Vyjdrete jako elementarni funkci integral z
(6*x^4-53*x^3+182*x^2-308*x+233)/((x-3)^2*(x-1)*(x^2-6*x+10))
```

$$\left(\int \frac{6\,x^4-53\,x^3+182\,x^2-308\,x+233}{(x-3)^2\,(x-1)\,(x^2-6\,x+10)}\,dx=\right.$$

$$\left.\int \frac{1}{(x-3)^2}+\frac{3}{x-1}+\frac{3\,x+3}{x^2-6\,x+10}\,dx\right)=$$

$$-\frac{1}{x-3}+3\ln(x-1)+\frac{3}{2}\ln(x^2-6\,x+10)+12\arctan(x-3)$$

line := "PMMAT2|174963|Novotný, Michal |zk|ESF M-HPS RRS [sem 2]

zadani pro, "Novotný, Michal ", 174963

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line :=

"PMMAT2|171864|Odehnal, Martin |zk|ESF B-EKM POH [sem 2]

zadani pro, "Odehnal, Martin ", 171864

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line :=

"PMMAT2|174734|Ohnheisrová, Iveta |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Ohnheisrová, Iveta ", 174734

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-22*x^3+46*x^2-46*x+22)/((x-2)^2*(x-1)*(x^2-4*x+5))
```

$$\left(\int \frac{2\,(-11\,x^3+23\,x^2-23\,x+11+2\,x^4)}{(x-2)^2\,(x-1)\,(x^2-4\,x+5)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2\,x+2}{x^2-4\,x+5}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-4\,x+5)+6\arctan(x-2)$$

line := "PMMAT2|172037|Petroviè, Martin |zk|ESF B-EKM POH [sem 2]

zadani pro, "Petroviè, Martin ", 172037

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-26*x^3+70*x^2-78*x+2)/((x-2)^2*(x-3)*(x^2-4*x+13))
```

$$\left(\int \frac{2\,(-13\,x^3+35\,x^2-39\,x+1+2\,x^4)}{(x-2)^2\,(x-3)\,(x^2-4\,x+13)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-3}+\frac{2\,x+2}{x^2-4\,x+13}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-3)+\ln(x^2-4\,x+13)+2\arctan\left(\frac{x}{3}-\frac{2}{3}\right)$$

line := "PMMAT2| 99620|Petøík, Martin |zk|ESF M-HPS FP [sem 4]

zadani pro, "Petøík, Martin ", 99620

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9\,x^3+14\,x^2-8\,x+2+2\,x^4)}{(x-2)^2\,(x-1)\,(x^2-2\,x+2)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2\,x+2}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2\,x+2)+4\arctan(x-1)$$

line :=
"PMMAT2|171888|Podhradský, Juraj |zk|ESF B-EKM POH [sem 2]'

zadani pro, "Podhradský, Juraj ", 171888

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.\right)=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line :=
"PMMAT2|170290|Pokorný, Franti¹ek |zk|ESF M-EKM POH [sem 2]

zadani pro, "Pokorný, Franti¹ek ", 170290

```
Vyjdrete jako elementarni funkci integral z
(2*x^4-7*x^3+12*x^2-2*x-23)/((x-1)^2*(x-3)*(x^2-2*x+10))
```

$$\left(\int \frac{2x^4-7x^3+12x^2-2x-23}{(x-1)^2\,(x-3)\,(x^2-2x+10)}\,dx = \int \frac{1}{(x-1)^2}+\frac{1}{x-3}+\frac{x+1}{x^2-2x+10}\,dx\right) = -\frac{1}{x-1}+\ln(x-3)+\frac{1}{2}\ln(x^2-2x+10)+\frac{2}{3}\arctan\left(\frac{x}{3}-\frac{1}{3}\right)$$

line := "PMMAT2|134691|Potoèková, Zuzana |zk|ESF M-HPS FP [sem 2]

zadani pro, "Potoèková, Zuzana ", 134691

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13x^2+33x-27+2x^3)}{(x-3)^2\,(x^2-6x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3x+3}{x^2-6x+18}\,dx\right) = -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|174793|Primová, Andrea |zk|ESF M-EKT EKON [sem 2]"

zadani pro, "Primová, Andrea ", 174793

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-23*x^3+51*x^2-55*x+27)/((x-2)^2*(x-1)*(x^2-4*x+5))
```

$$\left(\int \frac{4x^4-23x^3+51x^2-55x+27}{(x-2)^2\,(x-1)\,(x^2-4x+5)}\,dx = \int \frac{1}{(x-2)^2}+\frac{2}{x-1}+\frac{2x+2}{x^2-4x+5}\,dx\right) = -\frac{1}{x-2}+2\ln(x-1)+\ln(x^2-4x+5)+6\arctan(x-2)$$

line := "PMMAT2|171836|Prodìlalová, Linda |zk|ESF B-HPS VEK [sem 2]

zadani pro, "Prodìlalová, Linda ", 171836

```
Vyjdrete jako elementarni funkci integral z
(3*x^4-19*x^3+44*x^2-26*x-38)/((x-2)^2*(x-3)*(x^2-4*x+13))
```

$$\left(\int \frac{3x^4-19x^3+44x^2-26x-38}{(x-2)^2(x-3)(x^2-4x+13)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{1}{x-3}+\frac{2x+1}{x^2-4x+13}\,dx\right)=$$

$$-\frac{2}{x-2}+\ln(x-3)+\ln(x^2-4x+13)+\frac{5}{3}\arctan\left(\frac{x}{3}-\frac{2}{3}\right)$$

line := "PMMAT2|171818|Rojko, Andrej |zk|ESF B-EKM POH [sem 2]

zadani pro, "Rojko, Andrej ", 171818

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-15*x^3+16*x^2+15*x-56)/((x-1)^2*(x-3)*(x^2-2*x+10))
```

$$\left(\int \frac{4x^4-15x^3+16x^2+15x-56}{(x-1)^2(x-3)(x^2-2x+10)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-1)^2}+\frac{1}{x-3}+\frac{3x+2}{x^2-2x+10}\,dx\right)=$$

$$-\frac{2}{x-1}+\ln(x-3)+\frac{3}{2}\ln(x^2-2x+10)+\frac{5}{3}\arctan\left(\frac{x}{3}-\frac{1}{3}\right)$$

line := "PMMAT2|171756|Ryèek, Matou¹ |zk|ESF B-HPS VEK [sem 2]

zadani pro, "Ryèek, Matou¹ ", 171756

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3(-13x^2+33x-27+2x^3)}{(x-3)^2(x^2-6x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3x+3}{x^2-6x+18}\,dx\right.$$

$$\left.\right)=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|174809|Slezák, Martin |zk|ESF M-EKM POH [sem 2]

zadani pro, "Slezák, Martin ", 174809

```
Vyjdrete jako elementarni funkci integral z
(4*x^3-16*x^2+24*x-8)/((x-2)^2*(x^2-4*x+8))
```

$$\left(\int \frac{4(-4x^2+6x-2+x^3)}{(x-2)^2(x^2-4x+8)}\,dx=\int \frac{2}{(x-2)^2}+\frac{2}{x-2}+\frac{2x+2}{x^2-4x+8}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-2)+\ln(x^2-4x+8)+3\arctan\left(\frac{x}{2}-1\right)$$

line := "PMMAT2|171885|Slezáková, Petra |zk|ESF B-HPS VEK [sem 2]

zadani pro, "Slezáková, Petra ", 171885

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right)$$

$$=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|171931|Staroò, Richard |zk|ESF B-HPS FP [sem 2]

zadani pro, "Staroò, Richard ", 171931

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-19*x^3+27*x^2-7*x-9)/((x-1)^2*(x-3)*(x^2-4*x+5))
```

$$\left(\int \frac{4\,x^4-19\,x^3+27\,x^2-7\,x-9}{(x-1)^2\,(x-3)\,(x^2-4\,x+5)}\,dx=\int \frac{1}{(x-1)^2}+\frac{3}{x-3}+\frac{x+3}{x^2-4\,x+5}\,dx\right)$$

$$=-\frac{1}{x-1}+3\ln(x-3)+\frac{1}{2}\ln(x^2-4\,x+5)+5\arctan(x-2)$$

line := "PMMAT2|172095|Steiger, Zdenìk |zk|ESF B-EKM POH [sem 2]

zadani pro, "Steiger, Zdenìk ", 172095

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right)$$

$$=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|174905|Stratil, Martin |zk|ESF M-EKT EKON [sem 2]

zadani pro, "Stratil, Martin ", 174905

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9\,x^3+14\,x^2-8\,x+2+2\,x^4)}{(x-2)^2\,(x-1)\,(x^2-2\,x+2)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2\,x+2}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2\,x+2)+4\arctan(x-1)$$

line := "PMMAT2|174905|Stratil, Martin |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Stratil, Martin ", 174905

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9\,x^3+14\,x^2-8\,x+2+2\,x^4)}{(x-2)^2\,(x-1)\,(x^2-2\,x+2)}\,dx = \int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2\,x+2}{x^2-2\,x+2}\,dx\right) =$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2\,x+2)+4\arctan(x-1)$$

line :=
"PMMAT2|172083|Svobodová, Veronika |zk|ESF M-HPS FP [sem 2]'

zadani pro, "Svobodová, Veronika ", 172083

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right) = -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line := "PMMAT2|174671|©afáøová, Monika |zk|ESF M-HPS FP [sem 2]

zadani pro, "©afáøová, Monika ", 174671

```
Vyjdrete jako elementarni funkci integral z
(4*x^3-16*x^2+24*x-8)/((x-2)^2*(x^2-4*x+8))
```

$$\left(\int \frac{4\,(-4\,x^2+6\,x-2+x^3)}{(x-2)^2\,(x^2-4\,x+8)}\,dx = \int \frac{2}{(x-2)^2}+\frac{2}{x-2}+\frac{2\,x+2}{x^2-4\,x+8}\,dx\right) =$$

$$-\frac{2}{x-2}+2\ln(x-2)+\ln(x^2-4\,x+8)+3\arctan\left(\frac{x}{2}-1\right)$$

line :=
"PMMAT2| 99492|©amlová, Markéta |zk|ESF M-HPS RRS [sem 6]

zadani pro, "©amlová, Markéta ", 99492

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line :=

"PMMAT2|172194|©auerová, Ludmila |zk|ESF B-EKM POH [sem 2]

zadani pro, "©auerová, Ludmila ", 172194

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2|172149|©erý, Martin |zk|ESF B-HPS FP [sem 2]

zadani pro, "©erý, Martin ", 172149

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line :=

"PMMAT2|170179|©mídová, Lucie |zk|ESF M-EKM POH [sem 2]

zadani pro, "©mídová, Lucie ", 170179

```
Vyjdrete jako elementarni funkci integral z
(4*x^3-7*x^2+5*x-1)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{4\,x^3-7\,x^2+5\,x-1}{(x-1)^2\,(x^2-2\,x+2)}\,dx=\int \frac{1}{(x-1)^2}+\frac{3}{x-1}+\frac{x+3}{x^2-2\,x+2}\,dx\right)=$$

$$-\frac{1}{x-1}+3\ln(x-1)+\frac{1}{2}\ln(x^2-2\,x+2)+4\arctan(x-1)$$

line := "PMMAT2|171979|©»astná, Pavlína |zk|ESF B-HPS VEK [sem 2]

zadani pro, "©»astná, Pavlína ", 171979

```
Vyjdrete jako elementarni funkci integral z
```

```
(5*x^4-39*x^3+124*x^2-176*x+78)/((x-2)^2*(x-3)*(x^2-6*x+18))
```

$$\left(\int \frac{5x^4-39x^3+124x^2-176x+78}{(x-2)^2\,(x-3)\,(x^2-6x+18)}\,dx = \int \frac{1}{(x-2)^2}+\frac{2}{x-3}+\frac{3x+1}{x^2-6x+18}\,dx\right) = -\frac{1}{x-2}+2\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+\frac{10}{3}\arctan\left(\frac{x}{3}-1\right)$$

line :=
"PMMAT2|106163|©várová, Jana |zk|ESF M-EKT EKON [sem 2]

zadani pro, "©várová, Jana ", 106163

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-25*x^3+78*x^2-63*x-20)/((x-1)^2*(x-2)*(x^2-6*x+18))
```

$$\left(\int \frac{4x^4-25x^3+78x^2-63x-20}{(x-1)^2\,(x-2)\,(x^2-6x+18)}\,dx = \int \frac{2}{(x-1)^2}+\frac{3}{x-2}+\frac{x+1}{x^2-6x+18}\,dx\right) = -\frac{2}{x-1}+3\ln(x-2)+\frac{1}{2}\ln(x^2-6x+18)+\frac{4}{3}\arctan\left(\frac{x}{3}-1\right)$$

line :=
"PMMAT2|172008|Tomková, Hana |zk|ESF B-HPS VEK [sem 2]

zadani pro, "Tomková, Hana ", 172008

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13x^2+33x-27+2x^3)}{(x-3)^2\,(x^2-6x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3x+3}{x^2-6x+18}\,dx\right) = -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+4\arctan\left(\frac{x}{3}-1\right)$$

line :=
"PMMAT2|171930|Turcsányi, Richard |zk|ESF B-EKM POH [sem 2]

zadani pro, "Turcsányi, Richard ", 171930

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2|171975|Turková, Lenka |zk|ESF B-HPS RRS [sem 2]

zadani pro, "Turková, Lenka ", 171975

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2| 65353|Valentová, Jitka |zk|ESF M-HPS VEK [sem 4]

zadani pro, "Valentová, Jitka ", 65353

```
Vyjdrete jako elementarni funkci integral z
(3*x^4-9*x^3+13*x^2-7*x-4)/((x-1)^2*(x-2)*(x^2-2*x+5))
```

$$\left(\int \frac{3\,x^4-9\,x^3+13\,x^2-7\,x-4}{(x-1)^2\,(x-2)\,(x^2-2\,x+5)}\,dx=\int \frac{1}{(x-1)^2}+\frac{2}{x-2}+\frac{x+2}{x^2-2\,x+5}\,dx\right.$$

$$\left.=-\frac{1}{x-1}+2\ln(x-2)+\frac{1}{2}\ln(x^2-2\,x+5)+\frac{3}{2}\arctan\left(\frac{x}{2}-\frac{1}{2}\right)\right)$$

line :=
"PMMAT2|171857|Valentová, Lenka |zk|ESF B-EKM POH [sem 2]

zadani pro, "Valentová, Lenka ", 171857

```
Vyjdrete jako elementarni funkci integral z
(6*x^4-46*x^3+128*x^2-162*x+98)/((x-3)^2*(x-1)*(x^2-4*x+5))
```

$$\left(\int \frac{2\,(-23\,x^3+64\,x^2-81\,x+49+3\,x^4)}{(x-3)^2\,(x-1)\,(x^2-4\,x+5)}\,dx=\right.$$

$$\left.\int \frac{2}{(x-3)^2}+\frac{3}{x-1}+\frac{3\,x+3}{x^2-4\,x+5}\,dx\right)=$$

$$-\frac{2}{x-3}+3\ln(x-1)+\frac{3}{2}\ln(x^2-4\,x+5)+9\arctan(x-2)$$

line := "PMMAT2|174790|Váòa, Vladislav |zk|ESF M-HPS FP [sem 2]

zadani pro, "Váòa, Vladislav ", 174790

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-19*x^3+27*x^2-7*x-9)/((x-1)^2*(x-3)*(x^2-4*x+5))
```

$$\left(\int \frac{4x^4-19x^3+27x^2-7x-9}{(x-1)^2\,(x-3)\,(x^2-4x+5)}\,dx = \int \frac{1}{(x-1)^2}+\frac{3}{x-3}+\frac{x+3}{x^2-4x+5}\,dx\right.$$

$$\left.\right) = -\frac{1}{x-1}+3\ln(x-3)+\frac{1}{2}\ln(x^2-4x+5)+5\arctan(x-2)$$

line :=
"PMMAT2|174973|Vdovec, Milan |zk|ESF M-EKM POH [sem 2]

zadani pro, "Vdovec, Milan ", 174973

```
Vyjdrete jako elementarni funkci integral z
(4*x^3-7*x^2+5*x-1)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{4x^3-7x^2+5x-1}{(x-1)^2\,(x^2-2x+2)}\,dx = \int \frac{1}{(x-1)^2}+\frac{3}{x-1}+\frac{x+3}{x^2-2x+2}\,dx\right) =$$

$$-\frac{1}{x-1}+3\ln(x-1)+\frac{1}{2}\ln(x^2-2x+2)+4\arctan(x-1)$$

line := "PMMAT2|106541|Vegrichtová, Marta |zk|ESF M-HPS FP [sem 2]

zadani pro, "Vegrichtová, Marta ", 106541

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-26*x^3+70*x^2-78*x+2)/((x-2)^2*(x-3)*(x^2-4*x+13))
```

$$\left(\int \frac{2\,(-13x^3+35x^2-39x+1+2x^4)}{(x-2)^2\,(x-3)\,(x^2-4x+13)}\,dx =\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-3}+\frac{2x+2}{x^2-4x+13}\,dx\right) =$$

$$-\frac{2}{x-2}+2\ln(x-3)+\ln(x^2-4x+13)+2\arctan\left(\frac{x}{3}-\frac{2}{3}\right)$$

line := "PMMAT2|171976|Virglová, Lucie |zk|ESF B-EKM POH [sem 2]

zadani pro, "Virglová, Lucie ", 171976

```
Vyjdrete jako elementarni funkci integral z
(4*x^3-7*x^2+5*x-1)/((x-1)^2*(x^2-2*x+2))
```

$$\left(\int \frac{4x^3-7x^2+5x-1}{(x-1)^2\,(x^2-2x+2)}\,dx = \int \frac{1}{(x-1)^2}+\frac{3}{x-1}+\frac{x+3}{x^2-2x+2}\,dx\right) =$$

$$-\frac{1}{x-1}+3\ln(x-1)+\frac{1}{2}\ln(x^2-2x+2)+4\arctan(x-1)$$

line := "PMMAT2|174214|Vojtì¹ková, Ludmila |zk|ESF M-EKM POH [M
em 2]"

zadani pro, "Vojtì¹ková, Ludmila ", 174214

```
Vyjdrete jako elementarni funkci integral z
(2*x^4-8*x^3+12*x^2-x-10)/((x-1)^2*(x-2)*(x^2-4*x+8))
```

$$\left(\int \frac{2x^4-8x^3+12x^2-x-10}{(x-1)^2\,(x-2)\,(x^2-4x+8)}\,dx = \int \frac{1}{(x-1)^2}+\frac{1}{x-2}+\frac{x+1}{x^2-4x+8}\,dx\right.$$

$$\left.= -\frac{1}{x-1}+\ln(x-2)+\frac{1}{2}\ln(x^2-4x+8)+\frac{3}{2}\arctan\left(\frac{x}{2}-1\right)\right)$$

line := "PMMAT2|172170|Vravko, Matej |zk|ESF B-HPS RRS [sem 2]

zadani pro, "Vravko, Matej ", 172170

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13x^2+33x-27+2x^3)}{(x-3)^2\,(x^2-6x+18)}\,dx = \int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3x+3}{x^2-6x+18}\,dx\right.$$

$$\left.= -\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$

line := "PMMAT2|171839|Zlato¹, Michal |zk|ESF B-EKM POH [sem 2]

zadani pro, "Zlato¹, Michal ", 171839

```
Vyjdrete jako elementarni funkci integral z
(4*x^4-18*x^3+28*x^2-16*x+4)/((x-2)^2*(x-1)*(x^2-2*x+2))
```

$$\left(\int \frac{2\,(-9x^3+14x^2-8x+2+2x^4)}{(x-2)^2\,(x-1)\,(x^2-2x+2)}\,dx =\right.$$

$$\left.\int \frac{2}{(x-2)^2}+\frac{2}{x-1}+\frac{2x+2}{x^2-2x+2}\,dx\right) =$$

$$-\frac{2}{x-2}+2\ln(x-1)+\ln(x^2-2x+2)+4\arctan(x-1)$$

line := "PMMAT2|174990|Zubatý, Adam |zk|ESF M-HPS FP [sem 2]

zadani pro, "Zubatý, Adam ", 174990

```
Vyjdrete jako elementarni funkci integral z
(6*x^3-39*x^2+99*x-81)/((x-3)^2*(x^2-6*x+18))
```

$$\left(\int \frac{3\,(-13\,x^2+33\,x-27+2\,x^3)}{(x-3)^2\,(x^2-6\,x+18)}\,dx=\int \frac{3}{(x-3)^2}+\frac{3}{x-3}+\frac{3\,x+3}{x^2-6\,x+18}\,dx\right.$$

$$\left.=-\frac{3}{x-3}+3\ln(x-3)+\frac{3}{2}\ln(x^2-6\,x+18)+4\arctan\left(\frac{x}{3}-1\right)\right)$$