$$Seznam := 2$$

$$line :=$$

$$line := \text{"PMMAT2|105005|Adamová, Marie} \qquad \text{|zk|ESF B-HPS FP [sem 2]"}$$

$$zadani\ pro, \text{"Adamová, Marie} \qquad \text{", 105005}$$

```
metodou per partes vypoctete integral
 Int(sin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$[\int \sin(x)\, x\, dx = -x\cos(x) - \int -\cos(x)\, dx,\ "=",\ \sin(x) - x\cos(x)]$$

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

$$zadani\ pro, \text{"Albrechtová, Kristýna", 99521}$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, x\, dx = \frac{1}{2}x^2 \arctan(x^2) - \int \frac{x^3}{x^4+1}\, dx,\ "=",\ \frac{1}{2}x^2\arctan(x^2) - \frac{1}{4}\ln(x^4+1)\right]$$

$$line := \text{"PMMAT2|100108|Babák, Jan} \qquad \text{|zk|ESF M-HPS RRS [sem 6]"}$$

$$zadani\ pro, \text{"Babák, Jan} \qquad \text{", 100108}$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, dx = \arctan(x^2)\, x - \int \frac{2x^2}{x^4+1}\, dx,\ "=",\ \arctan(x^2)\, x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\ln\left(\frac{x^2 - x\sqrt{2}+1}{x^2+x\sqrt{2}+1}\right) - \frac{1}{2}\sqrt{2}\arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2}\arctan(x\sqrt{2}-1)\right]$$

$$line :=$$

$$\text{"PMMAT2|174666|Bednáø, Martin} \qquad \text{|zk|ESF M-HPS HOSP [sem 2]"}$$

$$zadani\ pro, \text{"Bednáø, Martin} \qquad \text{", 174666}$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, dx = \arctan(x^2)\, x - \int \frac{2x^2}{x^4+1}\, dx,\ "=",\ \arctan(x^2)\, x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\ln\left(\frac{x^2 - x\sqrt{2}+1}{x^2+x\sqrt{2}+1}\right) - \frac{1}{2}\sqrt{2}\arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2}\arctan(x\sqrt{2}-1)\right]$$

$$line :=$$

$$\text{"PMMAT2|174933|Benda, Vladislav} \qquad \text{|zk|ESF M-EKT EKON [sem 2]"}$$

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\, 2^x\, dx = \frac{2^x\, x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\, dx, \text{"="}, \frac{(-1 + x \ln(2))\, 2^x}{\ln(2)^2} \right]$$

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

zadani pro, "Beníêková, Petra   ", 172164

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, x\, dx = \frac{1}{2} x^2 \arcsin(x) - \int \frac{x^2}{2\sqrt{-x^2+1}}\, dx, \text{"="}, \right.$$
$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x\sqrt{-x^2+1}}{4} - \frac{1}{4}\arcsin(x) \right]$$

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

zadani pro, "Blaha, Robert   ", 174769

```
metodou per partes vypoctete integral
 Int(ln(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, x\, dx = \frac{1}{2} x^2 \ln(x) - \int \frac{x}{2}\, dx, \text{"="}, \frac{1}{2} x^2 \ln(x) - \frac{x^2}{4} \right]$$

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

zadani pro, "Cífka, Michal   ", 151092

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, dx = \arcsin(x)\, x - \int \frac{x}{\sqrt{-x^2+1}}\, dx, \text{"="}, \arcsin(x)\, x + \sqrt{-x^2+1} \right]$$

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

zadani pro, "Diani¹ka, Róbert   ", 171784

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, dx = \arctan(x^2)\, x - \int \frac{2\, x^2}{x^4 + 1}\, dx, \text{"="}, \arctan(x^2)\, x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\, \ln\!\left(\frac{x^2 - x\sqrt{2} + 1}{x^2 + x\sqrt{2} + 1} \right) - \frac{1}{2}\sqrt{2}\, \arctan(x\sqrt{2} + 1) \quad -\frac{1}{2}\sqrt{2}\, \arctan(x\sqrt{2} - 1) \right]$$

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

zadani pro, "Dole¾el, Tomá¹   ", 136915

```
metodou per partes vypoctete integral
 Int(x*cos(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\cos(x)\, dx = \sin(x)\, x - \int \sin(x)\, dx, \text{"="}, \cos(x) + \sin(x)\, x \right]$$

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

zadani pro, "Fajtová, Veronika   ", 171845

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, x\, dx = \frac{1}{2} x^2 \arcsin(x) - \int \frac{x^2}{2\sqrt{-x^2 + 1}}\, dx, \text{"="}, \right.$$
$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x\sqrt{-x^2 + 1}}{4} - \frac{1}{4}\arcsin(x) \right]$$

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

zadani pro, "Ferèák, Ondrej   ", 172168

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, dx = \arcsin(x)\, x - \int \frac{x}{\sqrt{-x^2 + 1}}\, dx, \text{"="}, \arcsin(x)\, x + \sqrt{-x^2 + 1} \right]$$

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

zadani pro, "Florová, Zuzana   ", 172186

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

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

$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x\sqrt{-x^2+1}}{4} - \frac{1}{4}\arcsin(x) \right]$$

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

zadani pro, "Havli¹ta, Luká¹   ", 135083

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

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

$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x\sqrt{-x^2+1}}{4} - \frac{1}{4}\arcsin(x) \right]$$

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

zadani pro, "Holasová, Pavla   ", 171776

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\, 2^x \, dx = \frac{2^x\, x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\, dx, \text{"="}, \frac{(-1 + x\ln(2))\, 2^x}{\ln(2)^2} \right]$$

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

zadani pro, "Hurníková, Tereza   ", 171762

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

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

$$\left. -\frac{1}{4}\sqrt{2}\ln\left(\frac{x^2 - x\sqrt{2} + 1}{x^2 + x\sqrt{2} + 1}\right) - \frac{1}{2}\sqrt{2}\arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2}\arctan(x\sqrt{2}-1) \right]$$

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

zadani pro, "Charvát, Ondøej   ", 99517

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \, 2^x \, dx = \frac{2^x \, x}{\ln(2)} - \int \frac{2^x}{\ln(2)} \, dx, \text{ "="}, \frac{(-1 + x \ln(2)) \, 2^x}{\ln(2)^2} \right]$$

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

zadani pro, "Jakubcová, Simona ", 174783

```
metodou per partes vypoctete integral
 Int(arctan(x^2)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2) \, x \, dx = \frac{1}{2} x^2 \arctan(x^2) - \int \frac{x^3}{x^4 + 1} \, dx, \text{ "="}, \quad \frac{1}{2} x^2 \arctan(x^2) - \frac{1}{4} \ln(x^4 + 1) \right]$$

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

zadani pro, "Jurèek, Daniel ", 73899

```
metodou per partes vypoctete integral
 Int(ln(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x) \, x \, dx = \frac{1}{2} x^2 \ln(x) - \int \frac{x}{2} \, dx, \text{ "="}, \frac{1}{2} x^2 \ln(x) - \frac{x^2}{4} \right]$$

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

zadani pro, "Kamenská, Katarína ", 171933

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x) \, x \, dx = \frac{1}{2} x^2 \arcsin(x) - \int \frac{x^2}{2 \sqrt{-x^2 + 1}} \, dx, \text{ "="}, \right.$$
$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x \sqrt{-x^2 + 1}}{4} - \frac{1}{4} \arcsin(x) \right]$$

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

zadani pro, "Kantor, Ondøej ", 170527

```
metodou per partes vypoctete integral
 Int(ln(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x) \, dx = \ln(x) \, x - \int 1 \, dx, \text{ "="}, \ln(x) \, x - x \right]$$

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

zadani pro, "Kapoun, Vítìzslav ", 174836

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\, dx = \frac{1}{2}\arctan(x)\, x^2 - \int \frac{x^2}{2\,(x^2+1)}\, dx,\ "=",\quad \frac{1}{2}\arctan(x)\, x^2 - \frac{x}{2} + \frac{1}{2}\arctan(x) \right]$$

line :=

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

zadani pro, "Kedroò, Milan   ", 174675

```
metodou per partes vypoctete integral
 Int(arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x)\, dx = x \arctan(x) - \int \frac{x}{x^2+1}\, dx,\ "=",\ x \arctan(x) - \frac{1}{2}\ln(x^2+1) \right]$$

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

zadani pro, "Klimková, Jana   ", 191617

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, dx = \arctan(x^2)\, x - \int \frac{2\,x^2}{x^4+1}\, dx,\ "=",\ \arctan(x^2)\, x \right.$$
$$\left. - \frac{1}{4}\sqrt{2}\ln\left(\frac{x^2 - x\sqrt{2} + 1}{x^2 + x\sqrt{2} + 1}\right) - \frac{1}{2}\sqrt{2}\arctan(x\sqrt{2} + 1) \quad - \frac{1}{2}\sqrt{2}\arctan(x\sqrt{2} - 1) \right]$$

line :=

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

zadani pro, "Kopr, Eduard   ", 174818

```
metodou per partes vypoctete integral
 Int(arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x)\, dx = x \arctan(x) - \int \frac{x}{x^2+1}\, dx,\ "=",\ x \arctan(x) - \frac{1}{2}\ln(x^2+1) \right]$$

line :=

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

zadani pro, "Ko¹íèková, Irena   ", 174678

```
metodou per partes vypoctete integral
 Int(x*cos(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \cos(x)\, dx = \sin(x)\, x - \int \sin(x)\, dx,\ "=",\ \cos(x) + \sin(x)\, x \right]$$

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, dx = \arcsin(x)\, x - \int \frac{x}{\sqrt{-x^2+1}}\, dx, \text{"="}, \arcsin(x)\, x + \sqrt{-x^2+1} \right]$$

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\, 2^x\, dx = \frac{2^x x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\, dx, \text{"="}, \frac{(-1 + x \ln(2))\, 2^x}{\ln(2)^2} \right]$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, x\, dx = \frac{1}{2} x^2 \arctan(x^2) - \int \frac{x^3}{x^4+1}\, dx, \text{"="}, \frac{1}{2} x^2 \arctan(x^2) - \frac{1}{4} \ln(x^4+1) \right]$$

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, x\, dx = \frac{1}{2} x^2 \arcsin(x) - \int \frac{x^2}{2\sqrt{-x^2+1}}\, dx, \text{"="}, \right.$$
$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x\sqrt{-x^2+1}}{4} - \frac{1}{4} \arcsin(x) \right]$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
```

,x na konci zadani ctete jako dx

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

$$\left. -\frac{1}{4}\sqrt{2}\,\ln\!\left(\frac{x^2 - x\sqrt{2}+1}{x^2 + x\sqrt{2}+1}\right) - \frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}-1) \right]$$

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

zadani pro, "Kusák, Roman   ", 171779

metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx

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

$$\left. \frac{1}{2} x^2 \arcsin(x) + \frac{x\sqrt{-x^2+1}}{4} - \frac{1}{4}\arcsin(x) \right]$$

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

zadani pro, "Lízalová, Eva   ", 172078

metodou per partes vypoctete integral
 Int(ln(x),x)
,x na konci zadani ctete jako dx

$$\left[\int \ln(x)\, dx = \ln(x)\, x - \int 1\, dx,\ \text{"="},\ \ln(x)\, x - x \right]$$

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

zadani pro, "Lorenc, Jan   ", 174665

metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx

$$\left[\int \arcsin(x)\, dx = \arcsin(x)\, x - \int \frac{x}{\sqrt{-x^2+1}}\, dx,\ \text{"="},\ \arcsin(x)\, x + \sqrt{-x^2+1} \right]$$

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

zadani pro, "Malík, David   ", 99655

metodou per partes vypoctete integral
 Int(arctan(x),x)
,x na konci zadani ctete jako dx

$$\left[\int \arctan(x)\, dx = x \arctan(x) - \int \frac{x}{x^2+1}\, dx,\ \text{"="},\ x \arctan(x) - \frac{1}{2}\ln(x^2+1) \right]$$

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\, dx = \frac{1}{2} \arctan(x)\, x^2 - \int \frac{x^2}{2\,(x^2+1)}\, dx, \text{"="}, \quad \frac{1}{2} \arctan(x)\, x^2 - \frac{x}{2} + \frac{1}{2} \arctan(x) \right]$$

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\, dx = \arcsin(x)\, x - \int \frac{x}{\sqrt{-x^2+1}}\, dx, \text{"="}, \arcsin(x)\, x + \sqrt{-x^2+1} \right]$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, dx = \arctan(x^2)\, x - \int \frac{2\,x^2}{x^4+1}\, dx, \text{"="}, \arctan(x^2)\, x \right.$$
$$\left. -\frac{1}{4}\sqrt{2} \ln\left(\frac{x^2 - x\sqrt{2}+1}{x^2 + x\sqrt{2}+1} \right) - \frac{1}{2}\sqrt{2} \arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2} \arctan(x\sqrt{2}-1) \right]$$

```
metodou per partes vypoctete integral
 Int(x*cos(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \cos(x)\, dx = \sin(x)\, x - \int \sin(x)\, dx, \text{"="}, \cos(x) + \sin(x)\, x \right]$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\,dx = \arctan(x^2)\,x - \int \frac{2\,x^2}{x^4+1}\,dx, \text{"="}, \arctan(x^2)\,x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\,\ln\!\left(\frac{x^2-x\sqrt{2}+1}{x^2+x\sqrt{2}+1}\right) - \frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}-1) \right]$$

line :=

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

zadani pro, "Odehnal, Martin   ", 171864

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\,2^x\,dx = \frac{2^x\,x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\,dx, \text{"="}, \frac{(-1+x\ln(2))\,2^x}{\ln(2)^2}\right]$$

line :=

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

zadani pro, "Ohnheisrová, Iveta   ", 174734

```
metodou per partes vypoctete integral
 Int(sin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \sin(x)\,x\,dx = -x\cos(x) - \int -\cos(x)\,dx, \text{"="}, \sin(x) - x\cos(x)\right]$$

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

zadani pro, "Petroviè, Martin   ", 172037

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\,dx = \arctan(x^2)\,x - \int \frac{2\,x^2}{x^4+1}\,dx, \text{"="}, \arctan(x^2)\,x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\,\ln\!\left(\frac{x^2-x\sqrt{2}+1}{x^2+x\sqrt{2}+1}\right) - \frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}+1) \qquad -\frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}-1) \right]$$

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

zadani pro, "Petøík, Martin   ", 99620

```
metodou per partes vypoctete integral
 Int(arctan(x^2)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\,x\,dx = \frac{1}{2}x^2\arctan(x^2) - \int \frac{x^3}{x^4+1}\,dx, \text{"="}, \quad \frac{1}{2}x^2\arctan(x^2) - \frac{1}{4}\ln(x^4+1)\right]$$

line :=

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

zadani pro , "Podhradský, Juraj   ", 171888

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\,dx = \frac{1}{2}\arctan(x)\,x^2 - \int \frac{x^2}{2\,(x^2+1)}\,dx,\ "=",\quad \frac{1}{2}\arctan(x)\,x^2 - \frac{x}{2} + \frac{1}{2}\arctan(x) \right]$$

line :=

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

zadani pro , "Pokorný, Franti¹ek   ", 170290

```
metodou per partes vypoctete integral
 Int(sin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \sin(x)\,x\,dx = -x\cos(x) - \int -\cos(x)\,dx,\ "=",\ \sin(x) - x\cos(x) \right]$$

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

zadani pro , "Potoèková, Zuzana   ", 134691

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\,dx = \arcsin(x)\,x - \int \frac{x}{\sqrt{-x^2+1}}\,dx,\ "=",\ \arcsin(x)\,x + \sqrt{-x^2+1} \right]$$

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

zadani pro , "Primová, Andrea   ", 174793

```
metodou per partes vypoctete integral
 Int(arcsin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\,x\,dx = \frac{1}{2}x^2\arcsin(x) - \int \frac{x^2}{2\sqrt{-x^2+1}}\,dx,\ "=", \right.$$
$$\left. \frac{1}{2}x^2\arcsin(x) + \frac{x\sqrt{-x^2+1}}{4} - \frac{1}{4}\arcsin(x) \right]$$

line :=

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

zadani pro , "Prodìlalová, Linda   ", 171836

```
metodou per partes vypoctete integral
 Int(ln(x),x)
,x na konci zadani ctete jako dx
```

$$[\int \ln(x) \, dx = \ln(x) \, x - \int 1 \, dx, \text{"="}, \ln(x) \, x - x]$$

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

zadani pro, "Rojko, Andrej   ", 171818

```
metodou per partes vypoctete integral
 Int(x*cos(x),x)
,x na konci zadani ctete jako dx
```

$$[\int x \cos(x) \, dx = \sin(x) \, x - \int \sin(x) \, dx, \text{"="}, \cos(x) + \sin(x) \, x]$$

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

zadani pro, "Ryèek, Matou¹   ", 171756

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x) \, dx = \frac{1}{2} \arctan(x) \, x^2 - \int \frac{x^2}{2\,(x^2+1)} \, dx, \text{"="}, \quad \frac{1}{2} \arctan(x) \, x^2 - \frac{x}{2} + \frac{1}{2} \arctan(x) \right]$$

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

zadani pro, "Slezák, Martin   ", 174809

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2) \, dx = \arctan(x^2) \, x - \int \frac{2\,x^2}{x^4+1} \, dx, \text{"="}, \arctan(x^2) \, x \right.$$
$$\left. - \frac{1}{4}\sqrt{2} \ln\left(\frac{x^2 - x\sqrt{2} + 1}{x^2 + x\sqrt{2} + 1} \right) - \frac{1}{2}\sqrt{2} \arctan(x\sqrt{2} + 1) \quad - \frac{1}{2}\sqrt{2} \arctan(x\sqrt{2} - 1) \right]$$

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

zadani pro, "Slezáková, Petra   ", 171885

```
metodou per partes vypoctete integral
 Int(sin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$[\int \sin(x) \, x \, dx = -x \cos(x) - \int -\cos(x) \, dx, \text{"="}, \sin(x) - x \cos(x)]$$

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

zadani pro, "Staroò, Richard   ", 171931

```
metodou per partes vypoctete integral
 Int(ln(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, x\, dx = \frac{1}{2} x^2 \ln(x) - \int \frac{x}{2}\, dx, \text{"="}, \frac{1}{2} x^2 \ln(x) - \frac{x^2}{4} \right]$$

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

zadani pro, "Steiger, Zdenìk   ", 172095

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\, 2^x\, dx = \frac{2^x\, x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\, dx, \text{"="}, \frac{(-1 + x \ln(2))\, 2^x}{\ln(2)^2} \right]$$

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

zadani pro, "Stratil, Martin   ", 174905

```
metodou per partes vypoctete integral
 Int(ln(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, dx = \ln(x)\, x - \int 1\, dx, \text{"="}, \ln(x)\, x - x \right]$$

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

zadani pro, "Stratil, Martin   ", 174905

```
metodou per partes vypoctete integral
 Int(ln(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, dx = \ln(x)\, x - \int 1\, dx, \text{"="}, \ln(x)\, x - x \right]$$

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

zadani pro, "Svobodová, Veronika ", 172083

```
metodou per partes vypoctete integral
 Int(sin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \sin(x)\, x\, dx = -x \cos(x) - \int -\cos(x)\, dx, \text{"="}, \sin(x) - x \cos(x) \right]$$

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

zadani pro, "©afáøová, Monika   ", 174671

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\, dx = \frac{1}{2} \arctan(x)\, x^2 - \int \frac{x^2}{2\,(x^2 + 1)}\, dx, \text{"="}, \quad \frac{1}{2} \arctan(x)\, x^2 - \frac{x}{2} + \frac{1}{2} \arctan(x) \right]$$

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\, dx = \arctan(x^2)\, x - \int \frac{2\,x^2}{x^4+1}\, dx,\ "=",\ \arctan(x^2)\, x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\, \ln\!\left(\frac{x^2 - x\sqrt{2} + 1}{x^2 + x\sqrt{2} + 1}\right) - \frac{1}{2}\sqrt{2}\, \arctan(x\sqrt{2}+1) \quad -\frac{1}{2}\sqrt{2}\, \arctan(x\sqrt{2}-1) \right]$$

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\, 2^x\, dx = \frac{2^x\, x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\, dx,\ "=",\ \frac{(-1 + x\ln(2))\, 2^x}{\ln(2)^2} \right]$$

```
metodou per partes vypoctete integral
 Int(sin(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \sin(x)\, x\, dx = -x\cos(x) - \int -\cos(x)\, dx,\ "=",\ \sin(x) - x\cos(x) \right]$$

```
metodou per partes vypoctete integral
 Int(x*cos(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\cos(x)\, dx = \sin(x)\, x - \int \sin(x)\, dx,\ "=",\ \cos(x) + \sin(x)\, x \right]$$

```
metodou per partes vypoctete integral
 Int(ln(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, dx = \ln(x)\, x - \int 1\, dx,\ "=",\ \ln(x)\, x - x \right]$$

$$line :=$$

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

$$zadani\ pro,\ "©várová, Jana   ",\ 106163$$

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\, dx = \frac{1}{2} \arctan(x)\, x^2 - \int \frac{x^2}{2\,(x^2+1)}\, dx,\ "=",\ \frac{1}{2}\arctan(x)\, x^2 - \frac{x}{2} + \frac{1}{2}\arctan(x) \right]$$

$$line :=$$

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

$$zadani\ pro,\ "Tomková, Hana   ",\ 172008$$

```
metodou per partes vypoctete integral
 Int(ln(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, x\, dx = \frac{1}{2} x^2 \ln(x) - \int \frac{x}{2}\, dx,\ "=",\ \frac{1}{2} x^2 \ln(x) - \frac{x^2}{4} \right]$$

$$line :=$$

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

$$zadani\ pro,\ "Turcsányi, Richard   ",\ 171930$$

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\, 2^x\, dx = \frac{2^x x}{\ln(2)} - \int \frac{2^x}{\ln(2)}\, dx,\ "=",\ \frac{(-1 + x \ln(2))\, 2^x}{\ln(2)^2} \right]$$

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

$$zadani\ pro,\ "Turková, Lenka   ",\ 171975$$

```
metodou per partes vypoctete integral
 Int(ln(x)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int \ln(x)\, x\, dx = \frac{1}{2} x^2 \ln(x) - \int \frac{x}{2}\, dx,\ "=",\ \frac{1}{2} x^2 \ln(x) - \frac{x^2}{4} \right]$$

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

$$zadani\ pro,\ "Valentová, Jitka   ",\ 65353$$

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
```

```
,x na konci zadani ctete jako dx
```

$$\left[\int x\arctan(x)\,dx = \frac{1}{2}\arctan(x)\,x^2 - \int\frac{x^2}{2\,(x^2+1)}\,dx, \text{"="}, \qquad \frac{1}{2}\arctan(x)\,x^2 - \frac{x}{2} + \frac{1}{2}\arctan(x)\right]$$

$line :=$

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

$zadani\ pro$, "Valentová, Lenka   ", 171857

```
metodou per partes vypoctete integral
 Int(arctan(x^2)*x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int\arctan(x^2)\,x\,dx = \frac{1}{2}x^2\arctan(x^2) - \int\frac{x^3}{x^4+1}\,dx, \text{"="}, \qquad \frac{1}{2}x^2\arctan(x^2) - \frac{1}{4}\ln(x^4+1)\right]$$

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

$zadani\ pro$, "Váòa, Vladislav   ", 174790

```
metodou per partes vypoctete integral
 Int(x*2^x,x)
,x na konci zadani ctete jako dx
```

$$\left[\int x\,2^x\,dx = \frac{2^x\,x}{\ln(2)} - \int\frac{2^x}{\ln(2)}\,dx, \text{"="}, \frac{(-1+x\ln(2))\,2^x}{\ln(2)^2}\right]$$

$line :=$

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

$zadani\ pro$, "Vdovec, Milan   ", 174973

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int\arcsin(x)\,dx = \arcsin(x)\,x - \int\frac{x}{\sqrt{-x^2+1}}\,dx, \text{"="}, \arcsin(x)\,x + \sqrt{-x^2+1}\right]$$

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

$zadani\ pro$, "Vegrichtová, Marta   ", 106541

```
metodou per partes vypoctete integral
 Int(arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int\arctan(x)\,dx = x\arctan(x) - \int\frac{x}{x^2+1}\,dx, \text{"="}, x\arctan(x) - \frac{1}{2}\ln(x^2+1)\right]$$

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

$zadani\ pro$, "Virglová, Lucie   ", 171976

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\,dx = \frac{1}{2}\arctan(x)\,x^2 - \int \frac{x^2}{2\,(x^2+1)}\,dx, \text{"="}, \quad \frac{1}{2}\arctan(x)\,x^2 - \frac{x}{2} + \frac{1}{2}\arctan(x) \right]$$

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

    em 2]"

zadani pro, "Vojtì¹ková, Ludmila ", 174214

```
metodou per partes vypoctete integral
 Int(arcsin(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arcsin(x)\,dx = \arcsin(x)\,x - \int \frac{x}{\sqrt{-x^2+1}}\,dx, \text{"="}, \arcsin(x)\,x + \sqrt{-x^2+1} \right]$$

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

zadani pro, "Vravko, Matej   ", 172170

```
metodou per partes vypoctete integral
 Int(x*cos(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \cos(x)\,dx = \sin(x)\,x - \int \sin(x)\,dx, \text{"="}, \cos(x) + \sin(x)\,x \right]$$

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

zadani pro, "Zlato¹, Michal   ", 171839

```
metodou per partes vypoctete integral
 Int(arctan(x^2),x)
,x na konci zadani ctete jako dx
```

$$\left[\int \arctan(x^2)\,dx = \arctan(x^2)\,x - \int \frac{2\,x^2}{x^4+1}\,dx, \text{"="}, \arctan(x^2)\,x \right.$$
$$\left. -\frac{1}{4}\sqrt{2}\,\ln\!\left(\frac{x^2-x\sqrt{2}+1}{x^2+x\sqrt{2}+1}\right) - \frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}+1) \quad -\frac{1}{2}\sqrt{2}\,\arctan(x\sqrt{2}-1) \right]$$

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

zadani pro, "Zubatý, Adam   ", 174990

```
metodou per partes vypoctete integral
 Int(x*arctan(x),x)
,x na konci zadani ctete jako dx
```

$$\left[\int x \arctan(x)\,dx = \frac{1}{2}\arctan(x)\,x^2 - \int \frac{x^2}{2\,(x^2+1)}\,dx, \text{"="}, \quad \frac{1}{2}\arctan(x)\,x^2 - \frac{x}{2} + \frac{1}{2}\arctan(x) \right]$$

line := 0