

43.

Rozložte na parciální zlomky:

a) $\frac{7x^2 + 7x - 176}{x^3 - 9x^2 + 6x + 56}$;

b) $\frac{-22x^2 - 24x + 12}{x^4 - 10x^2 + 9}$;

c) $\frac{4x - 4}{x^2(x-2)(x+1)^2}$;

d) $\frac{2x}{(x^2 + 1)(x^2 + 3)}$;

e) $\frac{2}{(x^2 + 1)(x-2)^2}$;

f) $\frac{2x}{x^3 + 1}$; g) $\frac{1}{x^6 - 1}$.

a) $-\frac{3}{x+2} + \frac{2}{x-4} + \frac{8}{x-7}$;

b) $-\frac{43}{6(x-3)} + \frac{57}{24(x+3)} + \frac{7}{8(x+1)} + \frac{17}{8(x-1)}$

c) $-\frac{5}{x} + \frac{2}{x^2} + \frac{1}{9(x-2)} + \frac{44}{9(x+1)} + \frac{8}{3(x+1)^2}$;

d) $\frac{x}{x^2+1} - \frac{x}{x^2+3}$;

e) $\frac{x}{x^2+1} - \frac{1}{x-1} + \frac{1}{(x-1)^2}$; f) $\frac{2}{3} \left(-\frac{1}{x+1} + \frac{x+1}{x^2-x+1} \right)$;

g) $\frac{1}{6} \left(\frac{1}{x-1} - \frac{x+2}{x^2+x+1} - \frac{1}{x+1} + \frac{x-2}{x^2-x+1} \right)$.