

Řešte v  $R$

a)  $(2x-3)(3x+2)+(2x+3)(3x-2)=0$

b)  $\frac{x}{2}-0,4=-0,15x^2$

c)  $\frac{2}{2x+3}-\frac{2}{3-2x}=\frac{4x^2-21}{4x^2-9}$

d)  $\frac{x-2}{x-3}+\frac{15}{x^2-3x}=\frac{6}{x-3}-\frac{3}{2}$

e)  $(x-3)^2+(x+4)^2-(x-5)^2=17x+24$

f)  $\frac{4}{x^2-10x+25}+\frac{1}{25-x^2}-\frac{1}{x+5}=0$

g)  $x^2:(x^2+1)=441:841$

h)  $\frac{\frac{x}{3}-\frac{x-1}{2}}{\frac{x}{3}-\frac{x+1}{4}}=x$

i)  $\frac{2x+1}{x+3}-\frac{x-1}{x^2-9}=\frac{x+3}{3-x}-\frac{4+x}{3+x}$

j)  $(6x-5)^2-(5x-2)^2=37$

- a)  $P = \{\pm 1\}$
- b)  $P = \left\{-4; \frac{2}{3}\right\}$
- c)  $P = \left\{\frac{7}{2}\right\}$
- d)  $P = \{2\}$
- e)  $P = \{-3; 8\}$
- f)  $P = \{0; 13\}$
- g)  $P = \left\{\pm \frac{21}{20}\right\}$
- h)  $P = \{-2\}$
- i)  $P = \left\{-\frac{5}{4}; 1\right\}$
- j)  $P = \left\{-\frac{4}{11}; 4\right\}$