

PONEDJELJAK, 25.5.2020. 6.d

Dobar dan svima!

Danas ćemo se družiti na **zoom-u u 11 sati.**

Prilažem rješenja domaće zadaće.

Pogledajte dalje video lekciju

<https://www.youtube.com/watch?v=RIS1CRyJRsw>

o jednadžbama s razlomcima. Prepisati sve primjere iz videa u bilježnicu te riješiti zadatak 16. na strani 134. u vašem udžbeniku.

IND - isto!

Srdačan pozdrav

RJEŠENJA DOMAĆE ZADAC'E

(razvrstavanje i zagrada)

1

$$\begin{aligned} \text{a) } \underline{-6x + 18} &= \underline{3x} \\ -6x - 3x &= -18 \\ -9x &= -18 /: (-9) \\ x &= \frac{-18}{-9} \\ \boxed{x=2} \end{aligned}$$

$$\begin{aligned} \text{b) } \underline{-x + 13} &= \underline{-2 + 4x} \\ -x - 4x &= -2 - 13 \\ -5x &= -15 /: (-5) \\ x &= \frac{-15}{-5} \\ \boxed{x=3} \end{aligned}$$

$$\begin{aligned} \text{c) } \underline{2x - 12 - 4x} &= \underline{-9 - 3x} \\ 2x - 4x + 3x &= -9 + 12 \\ 5x - 4x &= 3 \\ \boxed{x=3} \end{aligned}$$

$$\begin{aligned} \text{d) } \underline{16x + 11 - 39x - 5x} &= \underline{45x + 36 - 58x} \\ 16x - 39x - 5x - 45x + 58x &= -11 + 36 \\ 74x - 89x &= -75 \\ -15x &= -75 /: (-15) \\ \boxed{x = \frac{-75}{-15} = 5} \end{aligned}$$

$$\begin{aligned} \text{e) } \underline{2y - 4 + 22y} &= \underline{25y + 3} \\ 2y + 22y - 25y &= 3 + 4 \\ 24y - 25y &= 7 \\ -y &= 7 /: (-1) \\ \boxed{y = -7} \end{aligned}$$

2

$$\begin{aligned} \text{a) } 3 - (5 - x) &= 14 \\ 3 - 5 + x &= 14 \\ x &= 14 - 3 + 5 \\ \boxed{x=16} \end{aligned}$$

$$\begin{aligned} \text{b) } 2x + (3 - 4x) &= 5x - 11 \\ 2x + 3 - 4x &= 5x - 11 \\ 2x - 4x - 5x &= -11 - 3 \\ -7x &= -14 /: (-7) \\ \boxed{x = \frac{-14}{-7} = 2} \end{aligned}$$

$$\begin{aligned} \text{c) } 5(2x - 1) - 6 &= 39 \\ 10x - 5 - 6 &= 39 \\ 10x &= 39 + 5 + 6 \\ 10x &= 100 /: 10 \\ \boxed{x = \frac{100}{10} = 10} \end{aligned}$$

$$\begin{aligned} \text{d) } 2(x + 5) &= 8(x + 2) \\ 2x + 10 &= 8x + 16 \\ 2x - 8x &= 16 - 10 \\ -6x &= 6 /: (-6) \\ \boxed{x = \frac{6}{-6} = -1} \end{aligned}$$

$$\begin{aligned}
 e) \quad & 3(-5x+15)+45 = -8(5x-15) \\
 & -15x+45+45 = -40x+120 \\
 & -15x+40x = 120-45-45 \\
 & 25x = 30 \quad | : 25 \\
 & x = \frac{30}{25} = \frac{6}{5} = 1\frac{1}{5}
 \end{aligned}$$

$$\begin{aligned}
 f) \quad & 2(2x-3)-1 = -9-3(-x+4)+10 \\
 & 4x-6-1 = -9+3x-12+10 \\
 & 4x-3x = -9-12+10+6+1 \\
 & x = -2+17 \\
 & \boxed{x = -4}
 \end{aligned}$$

$$\begin{aligned}
 g) \quad & 8 - (-2x+4) = -2(3x-2) + (-x-1) \\
 & 8 + 2x - 4 = -6x + 4 - x - 1 \\
 & 2x + 6x + x = 4 - 1 - 8 + 4 \\
 & 9x = 8 - 9 \\
 & 9x = -1 \quad | : 9 \\
 & \boxed{x = \frac{-1}{9}}
 \end{aligned}$$