

DRODZY UCZNIOWIE na zielono NIE PRZEPISUJEMY

Jest to temat na 06.04-08.04. Proszę przepisać zadania do zeszytu .

Temat: Równania – powtórzenie wiadomości

**Zadanie 1/255**

$$x^3 + 4x = 5x^2$$

$x = 0$

$$L = 0^3 + 4 \cdot 0 = 0$$

$$P = 5 \cdot 0^2 = 0$$

$$L = P$$

$x = 3$

$$L = 3^3 + 4 \cdot 3 = 27 + 12 = 39$$

$$P = 5 \cdot 3^2 = 5 \cdot 9 = 45$$

$$L \neq P$$

$x = 1$

$$L = 1^3 + 4 \cdot 1 = 1 + 4 = 5$$

$$P = 5 \cdot 1^2 = 5 \cdot 1 = 5$$

$$L = P$$

$x = 2$

$$L = 2^3 + 4 \cdot 2 = 8 + 8 = 16$$

$$P = 5 \cdot 2^2 = 5 \cdot 4 = 20$$

$$L \neq P$$

$x = 4$

$$L = 4^3 + 4 \cdot 4 = 64 + 16 = 80$$

$$P = 5 \cdot 4^2 = 5 \cdot 16 = 80$$

$$L = P$$

$x = 0, x = 1, x = 4$

**Zadanie 2/255**

a)

$$L = 7 + 3 \cdot 5 = 7 + 15 = 22$$

$$P = 2(4 - 5) = 2 \cdot (-1) = -2$$

$$L \neq P \text{ NIE}$$

b)

$$L = 4(6 - 5) = 4 \cdot 1 = 4$$

$$P = 2(5 - 3) = 2 \cdot 2 = 4$$

$$L = P \text{ TAK}$$

c)

$$L = 0,5 \cdot 5 + 20 = 2,5 + 20 = 22,5$$

$$P = 4,4 \cdot 5 = 22$$

$$L \neq P \text{ NIE}$$

d)

$$L = 20 + 5 = 25$$

$$P = 20 - [20 - (20 - 5)] = 20 - 5 = 15$$

$$L \neq P \text{ NIE}$$

**Zadanie 3/255**

a)

$$5(x - 7) + 2 = -28$$

$$5x - 35 + 2 = -28$$

$$5x - 33 = -28 \quad | +33$$

$$5x = -28 + 33$$

$$5x = 5 \quad | :5$$

$$x = 1$$

b)

$$2(x - 1) + 3(x + 1) = 26$$

$$2x - 2 + 3x + 3 = 26$$

$$5x + 1 = 26 \quad | -1$$

$$5x = 26 - 1$$

$$5x = 25 \quad | :5$$

$$x = 5$$

c)

$$4(3 - x) + 9 = 7(7 + x) + 29$$

$$12 - 4x + 9 = 49 + 7x + 29$$

$$21 - 4x = 43 + 7x - 43$$

$$21 - 43 - 4x = 7x + 4x$$

$$-22 = 7x + 4x$$

$$-22 = 11x \quad | :11$$

$$x = -2$$

**Zadanie 4/255**

a)

$$\begin{aligned} x & - \text{cena herbaty} \\ x - 80g & - \text{cena dwuzdrowki} \\ x - 0,8 & \\ x + 2(x - 80g) & = 42790g \\ x + 2(x - 0,8) & = 4,4 \end{aligned}$$

b)

$$\begin{aligned} x & - \text{wiek Kasi} \\ 3x & - \text{wiek Taty} \\ x + 3x & = 44 \end{aligned}$$

c)

$$\begin{aligned} x & - \text{dni w tygodniu} \\ 2x & - \text{dzieci} \\ x + 2x + 1 & = 19 \\ & \text{Kasia} \end{aligned}$$

**Zadanie 5/255**

$x$  - długości prostokąta  
 $x - 12$  szerokości prostokąta

$$P_1 = 30 \cdot 30 = 900 \text{ [m}^2\text{]}$$

$$P_2 = 30 \cdot (30 - 12) = 30 \cdot 18 = 540 \text{ [m}^2\text{]}$$

$$\begin{aligned} x + x - 12 + x + x - 12 + x + x + 3 + 3 & = 180 \\ 7x - 30 & = 180 \quad | +30 \\ 7x & = 210 \quad | :7 \\ x & = 30 \text{ m} \end{aligned}$$
**Zadanie 6/255**

$$\begin{aligned} 90 + 90 + 2\alpha + \alpha + 30 & = 360 & 2\alpha & = 100^\circ \\ 210 + 3\alpha & = 360 \quad | -210 & \alpha + 30 & = 80^\circ \\ 3\alpha & = 150 \quad | :3 & & \\ \alpha & = 50^\circ & & \end{aligned}$$

**Zadanie 7/255**

$$\begin{aligned} 7) P & = U \cdot I \quad | : I & P & = U \cdot I \quad | : U \\ e) U & = \frac{P}{I} & I & = \frac{P}{U} \\ b) R & = \frac{U}{I} \quad | \cdot I & R & = \frac{U}{I} \quad | \cdot I \\ IR & = U \quad | : R & IR & = U \\ I & = \frac{U}{R} \end{aligned}$$

**Zadanie 8/255**

$x$  - cena kaszy

$1,1x$  - cena po 10% podwyżce

$1,1x - 0,2 \cdot 1,1x = 1,1x - 0,22x = 0,88x$  cena po obniżce 20%

a)  $x - 0,88x = 1,2x = 12\%x$

b)  $0,88x = 176 \mid : 0,88$

$x = 200 \text{ zł}$

**Zadanie 9/255**

9  $x^2 + 1 = 26 \mid -1$

$x^2 = 25$

$x = 5$

lub  $x = (-5)$

$5(x-2) = x+10$

$5x-10 = x+10 \mid +10$

$5x = x+10+10 \mid -x$  NIE C

$5x-x = 20$

$4x = 20 \mid : 4$

$x = 5$

Do domu Ćwiczenia strona 94 i 95 Proszę zeskanować, albo zrobić zdjęcie i wysłać zadania na Messengera lub e-mail [mularzanna@wp.pl](mailto:mularzanna@wp.pl) do piątku