

Zadanie 9.

$$4x - 3 = 15x - 24$$

$$5(2a + 7) = -5$$

$$y - (11 + 3y) = 6(2y + 3) - 3$$

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

$$3(2a - 3) - 8a = 7 - 2(3 - 2a)$$

$$2y - (-6 + 3y) = 6 + (-2y + 3)$$

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

$$\frac{2w - 1}{3} + 5 = 2w - \frac{w - 1}{2}$$

$$\frac{2 - 3y}{3} - 3 = y - \frac{2 - 3y}{6}$$

Zadanie 9. (rozwiązania)

$$4x - 3 = 15x - 24$$

$$-3 + 24 = 15x - 4x$$

$$21 = 11x$$

$$x = \frac{21}{11}$$

$$5(2a + 7) = -5$$

$$10a + 35 = -5$$

$$10a = -40$$

$$a = -4$$

$$y - (11 + 3y) = 6(2y + 3) - 3$$

$$y - 11 - 3y = 12y + 18 - 3$$

$$-2y - 11 = 12y + 15$$

$$-14y = 26$$

$$y = -\frac{13}{7}$$

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

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

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

$$x = -5$$

$$3(2a - 3) - 8a = 7 - 2(3 - 2a)$$

$$6a - 9 - 8a = 7 - 6 + 4a$$

$$-2a - 9 = 1 + 4a$$

$$-6a = 10$$

$$a = -\frac{5}{3}$$

$$2y - (-6 + 3y) = 6 + (-2y + 3)$$

$$2y + 6 - 3y = 6 - 2y + 3$$

$$-y + 6 = 9 - 2y$$

$$y = 3$$

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

Mnożymy przez 6: $3x + 6 = 2(x-1) - 6x$

$$3x + 6 = 2x - 2 - 6x$$

$$3x + 6 = -4x - 2$$

$$7x = -8$$

$$x = -\frac{8}{7}$$

$$\frac{2w-1}{3} + 5 = 2w - \frac{w-1}{2}$$

Mnożymy przez 6: $2(2w-1) + 30 = 12w - 3(w-1)$

$$4w - 2 + 30 = 12w - 3w + 3$$

$$4w + 28 = 9w + 3$$

$$-5w = -25$$

$$w = 5$$

$$\frac{2-3y}{3} - 3 = y - \frac{2-3y}{6}$$

Mnożymy przez 6: $2(2-3y) - 18 = 6y - (2-3y)$

$$4 - 6y - 18 = 6y - 2 + 3y$$

$$-14 - 6y = 9y - 2$$

$$-12 = 15y$$

$$y = -\frac{4}{5}$$

Kartkówka – Grupa 1

1. $4x - 3 = 15x - 24$

2. $y - (11 + 3y) = 6(2y + 3) - 3$

3. $2x - 3 = 3x - 2(x - 1)$

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

5. $\frac{2 - 3y}{3} - 3 = y - \frac{2 - 3y}{6}$

Kartkówka – Grupa 2

1. $5(2a + 7) = -5$

2. $y - (11 + 3y) = 6(2y + 3) - 3$

3. $3(2a - 3) - 8a = 7 - 2(3 - 2a)$

4. $\frac{2w - 1}{3} + 5 = 2w - \frac{w - 1}{2}$

5. $2x - 3 = 3x - 2(x - 1)$

Kartkówka – Grupa 3

1. $3(2a - 3) - 8a = 7 - 2(3 - 2a)$

2. $2y - (-6 + 3y) = 6 + (-2y + 3)$

3. $\frac{x}{2} + 1 = \frac{x - 1}{3} - x$

4. $\frac{2w - 1}{3} + 5 = 2w - \frac{w - 1}{2}$

5. $\frac{2 - 3y}{3} - 3 = y - \frac{2 - 3y}{6}$