

3.10.2020

Aufgabe

3. Supra: 3.28 108 (1), 109 (1), (1), 117 (2)

$$108. 1) \frac{x}{2} - x + 1 = -1 \quad | \cdot 2$$

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

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

$$-x = -2 - 2$$

$$-x = -4 \quad | \cdot (-1)$$

$$x = 4$$

$$109. 8) \frac{7}{2}x - \frac{x}{4} = 7 + x \quad | \cdot 4$$

$$4 \cdot \frac{7}{2}x - 4 \cdot \frac{x}{4} = 4 \cdot 7 + 4 \cdot x$$

$$14x - x = 28 + 4x$$

$$14x - x - 4x = 28$$

$$9x = 28$$

$$x = \frac{28}{9}$$

$$1) \frac{3x}{2} - x = x - 2 \quad | \cdot 2$$

$$2 \cdot \frac{3x}{2} - 2 \cdot x = 2 \cdot x - 2 \cdot 2$$

$$3x - 2x = 2x - 4$$

$$2x - 2x - 2x = -4$$

$$-x = -4$$

$$x = 4$$

$$117. 2) \frac{x-3}{4} - 1 = \frac{x+3}{3} \quad | \cdot 12$$

$$3 \cdot \frac{x-3}{4} - 12 \cdot 1 = 4 \cdot \frac{x+3}{3}$$

$$3 \cdot (x-3) - 12 = 4 \cdot (x+3)$$

$$3x - 9 - 12 = 4x + 12$$

$$3x - 4x = 12 + 9 + 12$$

$$-x = 33$$

$$x = -33$$