

Gemischte Übungen:

1) $11a - 6 = 7a + 10$, $G = \mathbb{N}$

2) $13 - 15b = 3 - 5b$, $G = \mathbb{N}$

3) $7c - 1 = 7c + 2$, $G = \mathbb{N}$

4) $2(3d - 6) = (2d - 4) \cdot 3$, $G = \mathbb{Z}$

5) $2e + 5 = -e + 5$, $G = \mathbb{N}$

6) $9(3 - 2f) = 4(7 - 4f)$, $G = \mathbb{Z}$

7) $6g + 5 = 7g - 11$, $G = \mathbb{Q}$

8) $2,75h + 3,7 = 0,5(4,6 - 4,5h) - (-1,4 - 5h)$, $G = \mathbb{Q}$

9) $2i - 17 = 9$, $G = \mathbb{N}$

10) $\frac{1}{14}(28 - 4j) = 6\frac{2}{7} - 4\frac{4}{7}j$, $G = \mathbb{Z}$

11) $2(6k - 1) = (8k + 3) \cdot 3$, $G = \mathbb{Q}$

12) $\frac{1}{3}(2l - 1) + 2 = \frac{1}{2}(3l - 5)$, $G = \mathbb{Q}$

13) $3(2m + 3) - 4(3 - m) + 5(m - 1) + 3(4 - m) = 16$, $G = \mathbb{Q}$

14) $4n - 6n(2n + 1) = 16 - 6n(2n + 1)$, $G = \mathbb{Z}$

15) $\frac{1}{2}(3 - 4o) - 4 = 1 - 1,8o$, $G = \mathbb{Q}$

16) $5(2p - 3) - 8p - 7(p - 3) = 4(3p - 5) - 4p$, $G = \mathbb{Q}$

17) $(q + 4)^2 - (3q - 4)^2 = 8q(4 - q)$, $G = \mathbb{Q}$

$$18) 6[2r - 3(r - 8)] = 2[5r - (6r + 4)] \quad , G = \mathbb{Q}$$

$$19) 6s + 35 = 5[3s - 4(7s - 5) + 3(8s - 6)] \quad , G = \mathbb{Z}$$

$$20) 3t(1 - 2t) - (6t + 1)(8 - t) = 80 \quad , G = \mathbb{Q}$$

$$21) (u + 4)^2 - (3u - 4)^2 = 8u(4 - u) + 2u \quad , G = \mathbb{Q}$$

$$22) (v + 3)(3 - v) - 4(1 + v)^2 = (-2 - v)^2 - 6v^2, G = \mathbb{Q}$$

$$23) \frac{4}{9}(3w - \frac{1}{2})(1 - 6w) = -2(2w)^2 + 2\frac{2}{3}w \quad , G = \mathbb{Q}$$

$$24) (5 - 2x)(1 + 3x) - (2 + 3x)^2 = -5x(3x + 1) + 3, G = \mathbb{Q}$$

$$25) \frac{1}{2}z(z - 3) + \frac{1}{4}(2z - \frac{1}{2}) = z(\frac{1}{2}z - \frac{1}{3}) - 2 + 3(z + 1), G = \mathbb{Q}$$