

Mathe DEU

$$1. \ a) \ -14a - (7 - 2a) + 3 =$$

$$-14a - 7 + 2a + 3 =$$

$$-12a - 4$$

$$b) \ -14b - (-7 + 2b) + (-3) - (8b - 4) =$$

$$-14b + 7 - 2b - 3 - 8b + 4 =$$

$$-24b + 8$$

$$c) \ 152y + (72y - 48) : 8 - (10y - 6) =$$

$$152y + 9y - 6 - 10y + 6$$

$$151y$$

$$d) \ 28b - (-47a - 25b + 12) - 2a + 31 \cdot 3a =$$

$$28b + 47a + 25b - 12 - 2a + 93a =$$

$$53b + 138a - 12$$

$$e) \ (35x - 42) : (-7) - (10,5 + 7,5x) : (-5) =$$

$$-5x + 6 - (-2,1 - 1,5x) =$$

$$-5x + 6 + 2,1 + 1,5x =$$

$$-3,5x + 8,1$$

$$f) \ \frac{1}{4}(-4x + 12) - \frac{1}{2}(5x + 14) + (-3x) =$$

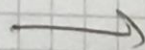
$$-x + 3 - 2,5x - 7 - 3x =$$

$$-6,5x - 4$$

$$3. \ a) \ 5x - (x - 4) = 2(x + 16)$$

$$b) \ \left(\frac{1}{3}x + \frac{1}{4}x + \frac{1}{6}x + \frac{1}{12}x\right) = 2x - 5,14$$

$$c) \ (x - 3) \cdot 6 - 5 = \frac{1}{2}(5x - 11)$$



$$4. a) (x-3) \cdot (-8) - (-12) = 5x - (2x-3)$$

$$-8x + 24 + 12 = 5x - 2x + 3$$

$$-8x + 36 = 3x + 3$$

$$-8x - 3x = 3 - 36$$

$$-11x = -33$$

$$x = 3$$

$$b) 1,2(16x-8) - 3,6(3x+9) = 2,4(4x-16) - 9,6$$

$$19,2x - 9,6 - 10,8x - 32,4 = 9,6x - 38,4 - 9,6$$

$$8,4x - 42 = 9,6x - 48 \quad | -9,6x + 42$$

$$-1,2x = -6$$

$$x = 5$$

$$5. a) V = 2a + 2b \quad | \rightarrow 2b$$

$$V - 2b = 2a \quad | :2$$

$$\frac{V - 2b}{2} = a$$

$$b) A = \frac{1}{2}gh \quad | \cdot 2$$

$$2A = g \cdot h \quad | :g$$

$$\frac{2A}{g} = h$$