

確認テスト解答

No.1 中学校の復習 (その 1)

$$1. \quad (1) \quad (-24) \div (-4)^2 \times 6 = (-24) \div 16 \times 6 = -\frac{24 \times 6}{16} = -9$$

$$(2) \quad 2(3x+1) - 3(x-2) = 6x+2-3x+6 = 3x+8$$

$$(3) \quad ab^2 \div 3a^2b \times (-3a)^2 = \frac{ab^2 \times 9a^2}{3a^2b} = 3ab$$

$$(4) \quad \frac{x-y}{2} - \frac{2x+5y}{3} = \frac{3(x-y) - 2(2x+5y)}{6} = \frac{3x-3y-4x-10y}{6} = \frac{-x-13y}{6}$$

$$(5) \quad (2x-3y)(3x+2y) = 6x^2 + 4xy - 9xy - 6y^2 = 6x^2 - 5xy - 6y^2$$

$$(6) \quad (x-3)^2 - (x+5)(x-4) = (x^2 - 6x + 9) - (x^2 + x - 20) = -7x + 29$$

$$(7) \quad \sqrt{48} \div \sqrt{6} \times \sqrt{2} = \frac{\sqrt{48} \times \sqrt{2}}{\sqrt{6}} = \frac{4\sqrt{3} \times \sqrt{2}}{\sqrt{6}} = 4$$

$$(8) \quad \sqrt{3} - 5\sqrt{2} + 6\sqrt{2} - 3\sqrt{3} = \sqrt{2} - 2\sqrt{3} \quad (\text{各 2 点})$$

$$2. \quad 2x + 3y = 9$$

$$3y = -2x + 9$$

$$y = -\frac{2}{3}x + 3 \quad (2 \text{ 点})$$

$$3. \quad (4xy^2 - 2x^2y) \div 2xy = 2y - x$$

$$= 2 \times \frac{1}{2} - \left(-\frac{1}{2}\right)$$

$$= 1 + \frac{1}{2} = \frac{3}{2} \quad (2 \text{ 点})$$