

問題番号
08M0102_1
レベル
☆☆☆

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中2第1章 多項式の計算
②分数の計算 No.1 解答

授業動画QR



1. 次の計算をなさい。

$$(1) \quad 3(2x - y - 2)$$

$$3 \times 2x + 3 \times (-y) + 3 \times (-2)$$

$$(2) \quad -4(-a + 3b - 4)$$

$$-4 \times (-a) - 4 \times (3b) - 4 \times (-4)$$

$$(3) \quad \frac{1}{2}(4x - 6y + 9)$$

$$\frac{1}{2} \times (4x) + \frac{1}{2} \times (-6y) + \frac{1}{2} \times (9)$$

$$(4) \quad (8x + 6y + 4z) \div 2$$

$$(8x + 6y + 4z) \times \frac{1}{2}$$

$$\frac{1}{2} \times 8x + \frac{1}{2} \times 6y + \frac{1}{2} \times 4z$$

$$(5) \quad (10a^2 + 5a + 25) \div (-5)$$

$$(10a^2 + 5a + 25) \times \left(-\frac{1}{5}\right)$$

$$\left(-\frac{1}{5}\right) \times 10a^2 + \left(-\frac{1}{5}\right) \times 5a + \left(-\frac{1}{5}\right) \times 25$$

$$(6) \quad \left(\frac{4}{3}x - \frac{5}{4}y\right) \div \frac{1}{12}$$

$$\left(\frac{4}{3}x - \frac{5}{4}y\right) \times 12$$

$$12 \times \left(\frac{4}{3}x\right) + 12 \times \left(-\frac{5}{4}y\right)$$

$$(1) \quad 6x - 3y - 6$$

$$(2) \quad 4a - 12b + 16$$

$$(3) \quad 2x - 3y + \frac{9}{2}$$

$$(4) \quad 4x + 3y + 2z$$

$$(5) \quad -2a^2 - a - 5$$

$$(6) \quad 16x - 15y$$

2. 次の計算をなさい。

$$(1) \quad 3(2x - 3y) + 4(2y - x)$$

$$6x - 9y + 8y - 4x$$

$$(2) \quad -2(a - 2b) - (3a - 6b)$$

$$-2a + 4b - 3a + 6b$$

$$(3) \quad \frac{5x + 2y}{10} + \frac{-3x + 8y}{5}$$

$$\frac{5x + 2y + 2(-3x + 8y)}{10} = \frac{5x - 6x + 2y - 16y}{10}$$

$$(4) \quad \frac{6a - 7b}{2} - \frac{3a - 2b}{4}$$

$$\frac{2(6a - 7b) - (3a - 2b)}{4} = \frac{12a - 14b - 3a + 2b}{4} = \frac{9a - 12b}{4}$$

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

$$\frac{3(2x - y) - 2(6x + 3y)}{6} = \frac{6x - 3y - 12x - 6y}{6}$$

$$= \frac{-6x - 9y}{6}$$

$$(6) \quad \frac{3a + 2b}{4} - \frac{6a - 7b}{3}$$

$$\frac{3(3a + 2b) - 4(6a - 7b)}{12} = \frac{9a + 6b - 24a + 28b}{12}$$

$$= \frac{-15a + 34b}{12}$$

$$(1) \quad 2x - y$$

$$(2) \quad -5a + 10b$$

$$(3) \quad -\frac{x}{10} + \frac{9}{5}y$$

$$(4) \quad \frac{9}{4}a - 3b$$

$$(5) \quad -x - \frac{3}{2}y$$

$$(6) \quad -\frac{5}{4}a + \frac{17}{6}b$$