

入試対策プリント（計算等基本問題） 17日目 解答と解説

【解答】 (1) -15 (2) 0 (3) $4b^2$ (4) $(a-6)(a+1)$ (5) $x = \frac{-3 \pm \sqrt{17}}{4}$

$$\begin{aligned}(1) \quad & 3 - 2 \times 3^2 \\ & = 3 - 2 \times 9 \\ & = 3 - 18 \\ & = -15\end{aligned}$$

$$\begin{aligned}(2) \quad & \sqrt{12} - \frac{6}{\sqrt{3}} \\ & = 2\sqrt{3} - 2\sqrt{3} \\ & = 0\end{aligned}$$

$$\begin{aligned}(3) \quad & 6ab \div 3a \times 2b \\ & = \frac{6ab \times 2b}{3a} \\ & = 4b^2\end{aligned}$$

$$\begin{aligned}(4) \quad & a^2 - 5a - 6 \\ & \text{積が} -6, \text{和が} -5 \text{になる自然数の組を探せばよい。} \\ & a^2 - 5a - 6 \\ & = (a - 6)(a + 1)\end{aligned}$$

$$\begin{aligned}(5) \quad & (2x + 1)(x + 2) = 2x + 3 \text{ を } ax^2 + bx + c = 0 \text{ の形にしなければいけないので,} \\ & 2x^2 + 4x + x + 2 = 2x + 3 \\ & 2x^2 + 3x - 1 = 0 \\ & \text{解の公式に代入して求める。} \\ & x = \frac{-3 \pm \sqrt{3^2 - 4 \times 2 \times (-1)}}{2 \times 2} \\ & x = \frac{-3 \pm \sqrt{17}}{4}\end{aligned}$$