

第27回 式の値 演習編1

解答

$b = -3$ のとき

① $4b$

$$= 4 \times b = 4 \times (-3) = -12$$

② $5 - 2b$

$$= 5 - 2 \times b = 5 - 2 \times (-3) = 5 + 6 = 11$$

③ $-b + 3$

$$= (-1) \times (-3) + 3 = 3 + 3 = 6$$

④ $-\frac{6}{b}$

$$= (-6) \div (-3) = 2$$

⑤ b^2

$$= b \times b = (-3) \times (-3) = 9$$

⑥ $-b^3$

$$= (-1) \times b \times b \times b = (-1) \times (-3) \times (-3) \times (-3) = 27$$

⑦ $(-b)^2$

$$= \{(-1) \times b\}^2 = \{(-1) \times (-3)\}^2 = 3^2 = 9$$

$B = -\frac{1}{2}$

① $-4b$

$$= (-4) \times b = (-4) \times \left(-\frac{1}{2}\right) = \frac{4}{2} = 2$$

② b^3

$$= b \times b \times b = \left(-\frac{1}{2}\right) \times \left(-\frac{1}{2}\right) \times \left(-\frac{1}{2}\right) = -\frac{1 \times 1 \times 1}{2 \times 2 \times 2} = -\frac{1}{8}$$

③ $b + 3$

$$= \left(-\frac{1}{2}\right) + 3 = -\frac{1}{2} + 3 = -\frac{1}{2} + \frac{6}{2} = \frac{5}{2}$$