

1. 다음 중 계산 결과가 옳지 않은 것은?

① $(-2xy^2) \times (3x)^2 \div (6y)^2 = -\frac{x^3}{2}$

② $14a^2 \div (-2b^2)^2 \times (3ab^2)^2 = -28a^4$

③ $\left(\frac{2}{3}a^2\right)^2 \times (3b^2)^2 \div (4ab^2)^2 = \frac{a^2}{4}$

④ $(10a)^2 \times (-ab^2)^2 \div \left(-\frac{1}{3}ab^2\right)^2 = 900a^2$

⑤ $(-4x^2y) \div \left(-\frac{2}{3}y^2\right) \times (2xy^2)^3 = 48x^5y^5$

해설

$$\begin{aligned} & 14a^2 \div (-2b^2)^2 \times (3ab^2)^2 \\ &= 14a^2 \div 4b^4 \times 9a^2b^4 \\ &= \frac{63a^4}{2} \end{aligned}$$

2.

