

1. 다음 식을 계산한 결과가 3 이 되는 것은?

① $10a^2b \div \left(-\frac{1}{3}ab\right)$

② $\left(\frac{1}{3}a^2\right)^2 \div 9a^3$

③ $\frac{1}{4}a^2 \div \left(-\frac{3}{5}a\right)^2$

④ $6a^2b \div \left(\frac{1}{2}ab^2\right)$

⑤ $\left(-\frac{12}{7}a^2\right) \div \left(-\frac{4}{7}a^2\right)$

2. $42x^3y^2 \div 12xy^3 \div \frac{7x}{y}$ 를 간단히 하면?

① $\frac{1}{2}x$

② $3x^2$

③ $7xy$

④ $\frac{2x}{3}$

⑤ x^2y^3

3. $3a^3b^2 \div (-4a^2b^3)^3 \times (2ab^3)^3$ 을 계산하면?

① $-\frac{3}{8}b^2$

② $-\frac{8}{3}b^2$

③ $\frac{3}{8}ab$

④ $-\frac{8}{3}ab$

⑤ $-\frac{3}{8}a^2$

4. $(9a^2b^3)^2 \div (-3a^3b)^4 \times 3a^2b^4$ 을 간단히 하여라.



답:

5. $x_1 = 97, x_2 = \frac{2}{x_1}, x_3 = \frac{3}{x_2}, x_4 = \frac{4}{x_3}$ 이라 할 때, $x_1 \cdot x_2 \cdot x_3 \cdot x_4$ 의 값은?

① 2

② 4

③ 6

④ 8

⑤ 10

6. $-(-a^4) \times \left(\frac{2}{a}\right)^3 \times \left(-\frac{1}{2}\right)^4$ 을 간단히 하면?

① $-6a$

② $6a$

③ $\frac{1}{2}a$

④ $-\frac{1}{2}a$

⑤ $\frac{1}{4}a$