

stress test

1. $3^5 \div 9^2 =$?

① $3^5 \div 9^2 = 1$

② $(x^2)^3 \times (x^3)^4 = x^{18}$

③ $\left(\frac{x^4}{y^2}\right)^3 = \frac{x^{12}}{y^6}$

④ $(x^2y^5)^4 = x^8y^{20}$

⑤ $(a^2b)^3 \div a^2 = a^4b^3$

2. $\left(\frac{a^2b^3}{a^3b^2}\right)^4 = \frac{b^8}{a^4}$?

is it true or false?

3. $-(2x^2 - ax + 5) + (4x^2 - 3x + b) = cx^2 + 6x + 7$
(where a, b, c are constants) ?

is it true or false?

4. $x = 2$, $y = -3$? $2x + 5y - (3y - 3x)$?

① -8 ② -4 ③ 1 ④ 2 ⑤ 4

5. $(3x^2 - 9xy) \div 3x - (6xy - 8y^2) \div (-2y)$?

① $4x - 7y$ ② $4x + 7y$ ③ $2x - 7y$

④ $2x + 7y$ ⑤ $2x - y$

6. $3x(x - 5) + 4x(1 - 3x) = ax^2 + bx + c$?

① 0 ② -11 ③ -20 ④ 99 ⑤ -99

7. $(x - 4)(x - 6) = x^2 + Ax + B$?

① -24 ② -10 ③ 4

④ 10 ⑤ 14

