

Final Review 4

Integer - An integer is a whole number. It can be negative. Fractions are not integers.

Which of the following will not result in an integer?

- ① (a) $8 \cdot 9$ (2) (a) $7 - 12$
(b) $8 + 9$ (b) $7 \div 12$
(c) $8 - 9$ (c) $7 + 12$
(d) $8 \div 9$ (d) $7 \cdot 12$
- ③ Which point lies on the line $y = -3x + 1$
(a) $(-3, 1)$ (d) $(-1, 1)$
(b) $(1, -2)$ (c) $(-5, 5)$
- ④ What line has slope -3 and passes through $(2, 6)$?
(a) $y = 3x + 2$ $y = 3x$
(b) $y = -3x + 2$ $y = -3x + 12$
- ⑤ Given that a line passes through $(2, 8)$ and $(6, -3)$, find the equation of the line in standard form.
(A) $-11x + 4y = 52$ (C) $11x - 4y = 10$
(B) $11x + 4y = 54$ (D) $x + 4y = 50$
- ⑥ Find an equation of a line perpendicular to $y = \frac{3}{2}x + 5$ passing through $(3, -1)$
(A) $y = \frac{2}{3}x - 6$
(B) $y = -\frac{2}{3}x + 11$
(C) $y = \frac{2}{3}x + 1$
(D) $y = -\frac{2}{3}x + 1$
- ⑦ Where do the lines $y = 5x + 5$ and $y = 3x - 1$ intersect?
(A) $(-3, -10)$ (C) $(-3, -5)$
(B) $(3, 8)$ (D) $(3, 20)$