

PRACTICE WRITING QUADRATIC EQUATIONS VERTEX FORM

Quadratic function f has vertex $(4, 15)$ and passes through the point $(1, 20)$. Which equation represents f ?

- Ⓐ $f(x) = -\frac{5}{9}(x - 4)^2 + 15$
- Ⓑ $f(x) = \frac{5}{9}(x - 4)^2 + 15$
- Ⓒ $f(x) = -\frac{35}{9}(x - 4)^2 - 15$
- Ⓓ $f(x) = \frac{35}{9}(x - 4)^2 - 15$

Which function is equivalent to $y = 3(x + 2)^2 + 7$?

- A** $y = 3x^2 + 12x + 33$
- B** $y = 3x^2 + 12x + 19$
- C** $y = 3x^2 + 19$
- D** $y = 3x^2 + 33$