

Homework

p. 312: 7, 12, 15, 21, 24, 30

WRITING IN VERTEX FORM Write a quadratic function in vertex form whose graph has the given vertex and passes through the given point.

7. vertex: $(1, 6)$
point: $(-1, 2)$

12. vertex: $(2, 1)$
point: $(4, -2)$

15. **★ MULTIPLE CHOICE** The vertex of a parabola is $(5, -3)$ and another point on the parabola is $(1, 5)$. Which point is also on the parabola?

(A) $(0, 3)$

(B) $(-1, 9)$

(C) $(-1, 15)$

(D) $(7, 7)$

WRITING IN INTERCEPT FORM Write a quadratic function in intercept form whose graph has the given x -intercepts and passes through the given point.

21. x -intercepts: $-3, 0$
point: $(2, 10)$

24. x -intercepts: $-5, -1$
point: $(-7, -24)$

WRITING IN STANDARD FORM Write a quadratic function in standard form for the parabola shown.

