

2. Build a quadratic function in factored form from whose graph has the given x-intercepts and passes through the given point.

x -intercepts: 1, 4
point: (3, 2)

x -intercepts: -2, 2
point: (-4, 8)

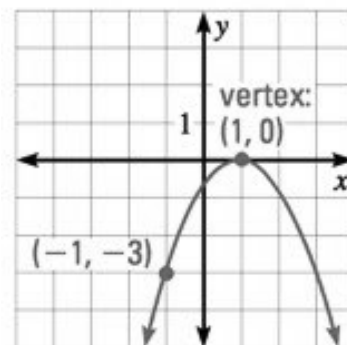
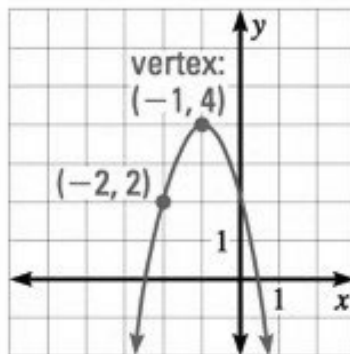
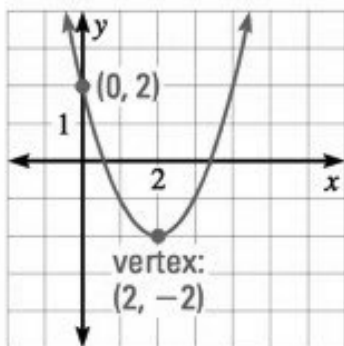
x -intercepts: -1, 6
point: (1, -20)

x -intercepts: -10, -8
point: (-7, -15)

x -intercepts: 3, 9
point: (14, 77)

x -intercepts: -5, 0
point: (-3, 18)

3. Write a quadratic function in vertex form for the parabolas.



4. Write a quadratic function in vertex form whose graph has the given vertex and passes through the given point.

vertex: $(2, -1)$
point: $(4, 3)$

vertex: $(-4, 6)$
point: $(-1, 9)$

vertex: $(4, 5)$
point: $(8, -3)$

vertex: $(0, 0)$
point: $(-2, -12)$

vertex: $(1, -10)$
point: $(-3, 54)$

vertex: $(-6, -7)$
point: $(0, -61)$