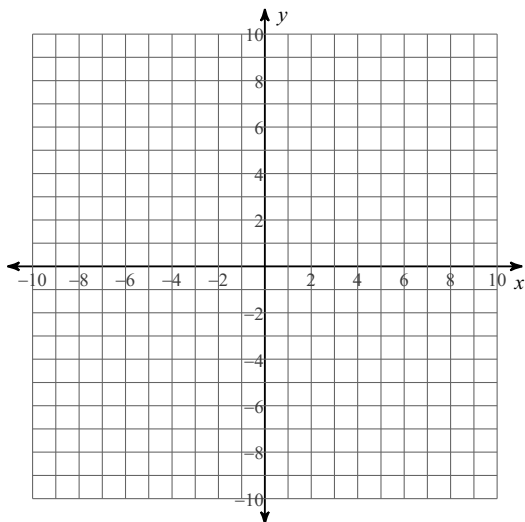


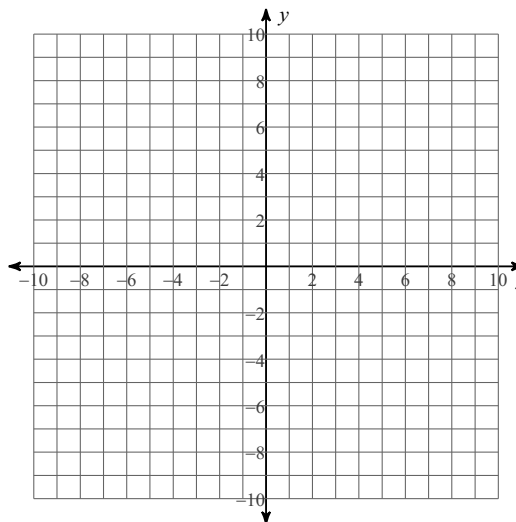
Graphing Quadratics in Vertex Form

Sketch the graph of each function. State the vertex.

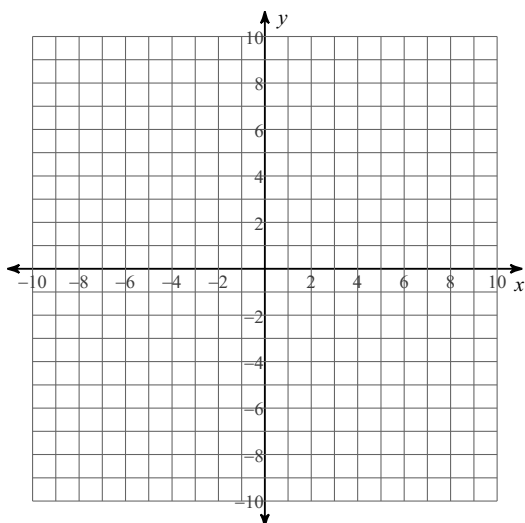
1) $y = x^2 - 5$



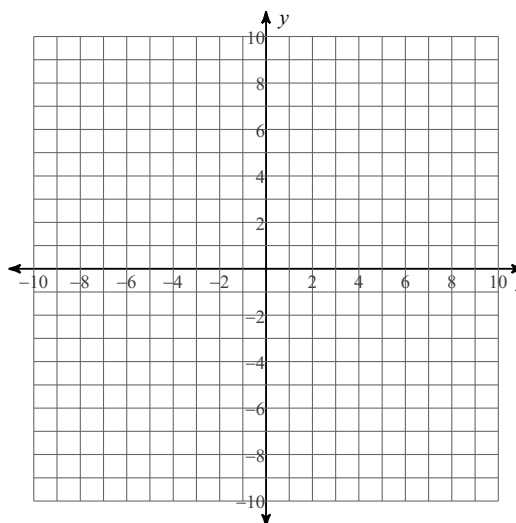
2) $y = (x - 5)^2$



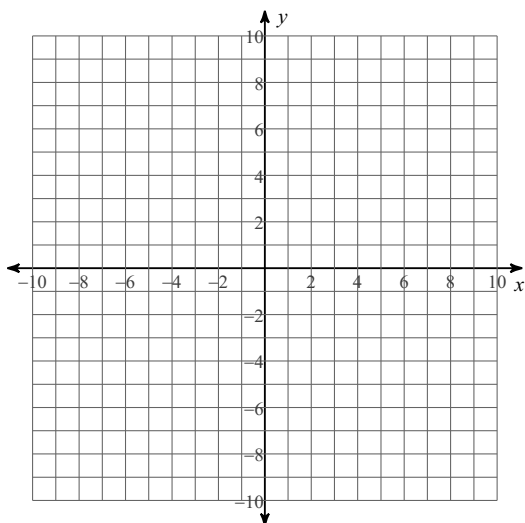
3) $y = (x - 2)^2 + 1$



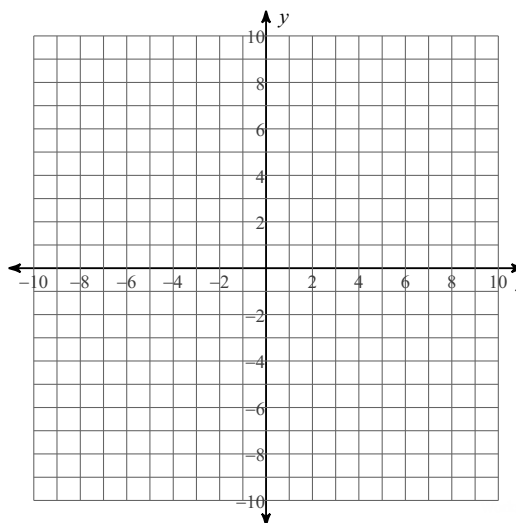
4) $y = (x + 3)^2 - 7$



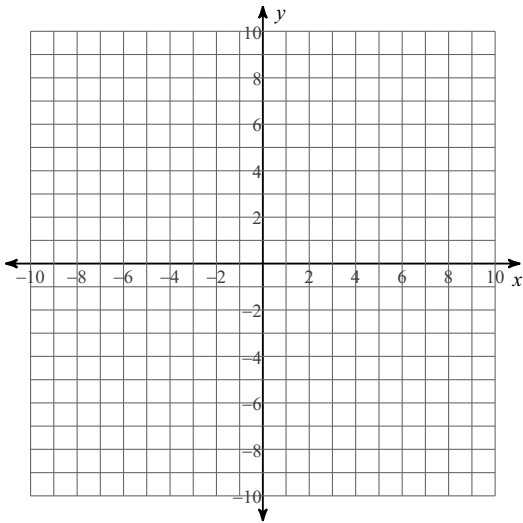
5) $y = x^2 + 2$



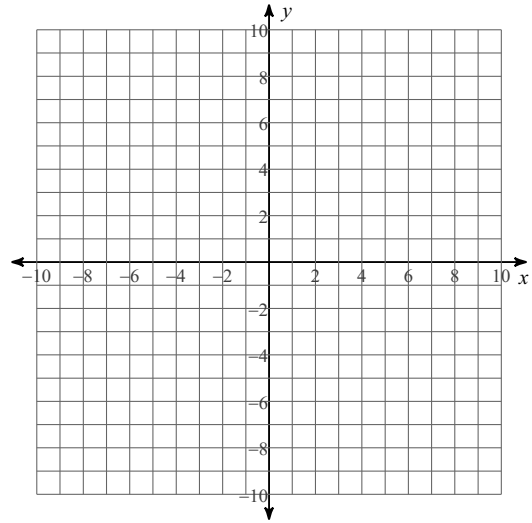
6) $y = -(x + 3)^2 + 4$



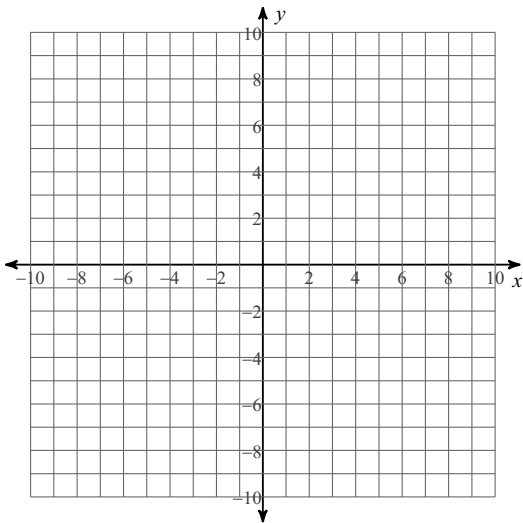
$$7) y = 2(x + 1)^2$$



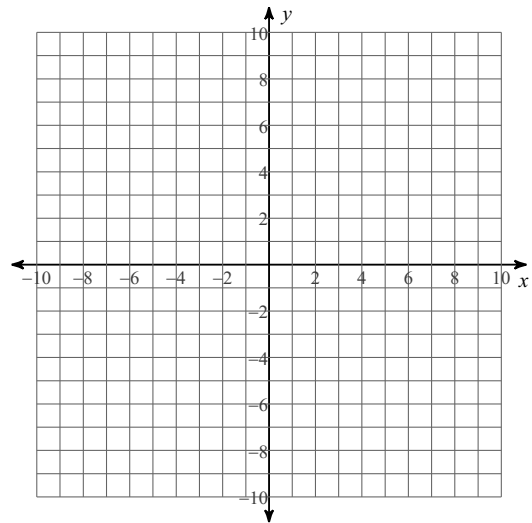
$$8) y = \frac{1}{2}x^2 - 3$$



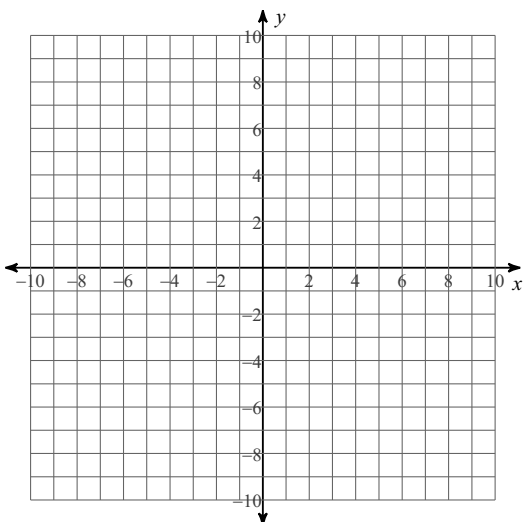
$$9) y = -(x + 1)^2 + 5$$



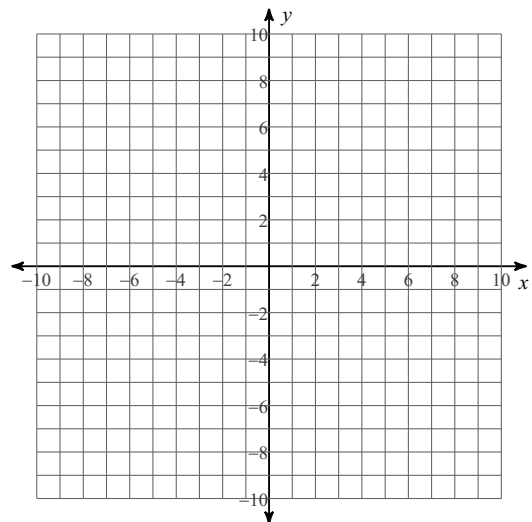
$$10) y = 3(x - 4)^2 - 4$$



$$11) y = -\frac{1}{2}(x + 5)^2 + 8$$



$$12) y = 2(x + 3)^2$$



Answers to Graphing Quadratics in Vertex Form

1)
9)

3)
11)

5)

7)