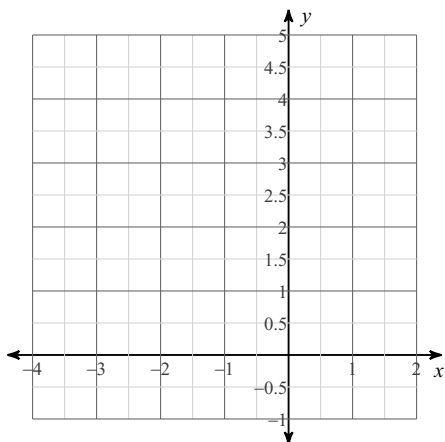


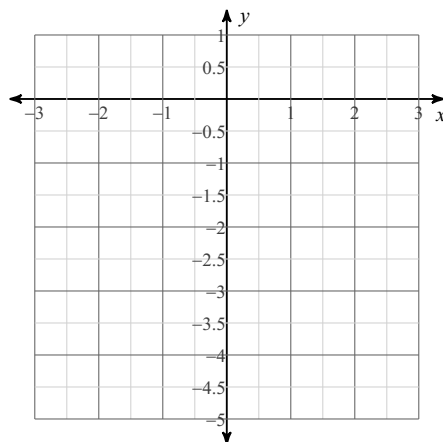
Graphs of Parabolas in Vertex Form

Sketch the graph of each function.

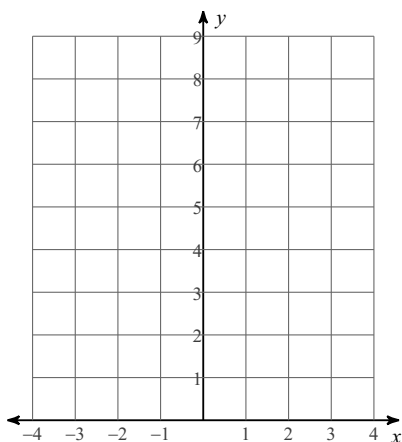
1) $y = x^2$



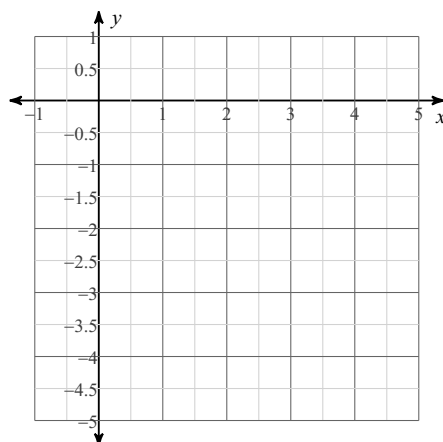
2) $y = -x^2$



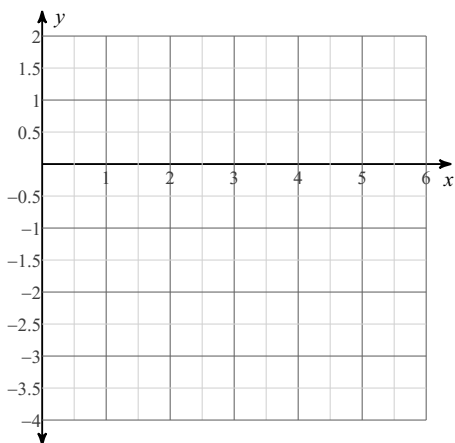
3) $y = (x + 2)^2 + 4$



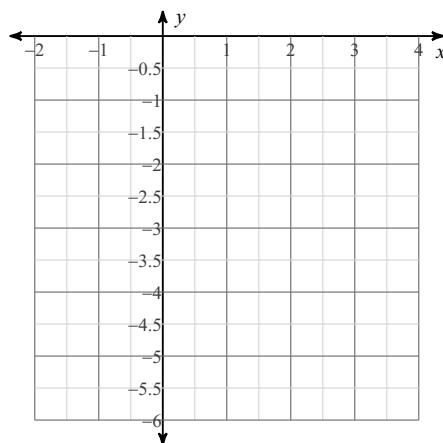
4) $y = (x - 3)^2 - 4$



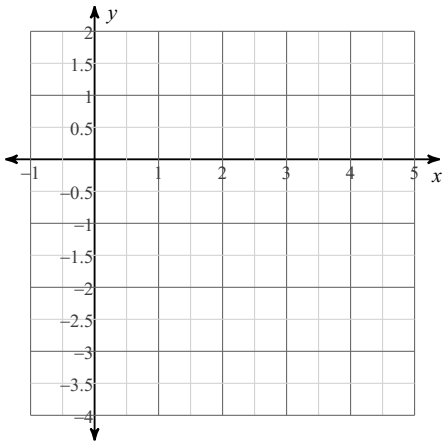
5) $y = (x - 3)^2 - 3$



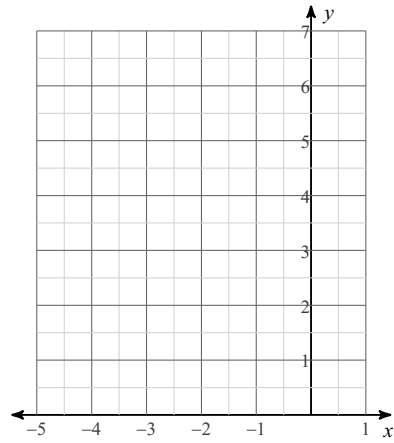
6) $y = -(x - 1)^2 - 1$



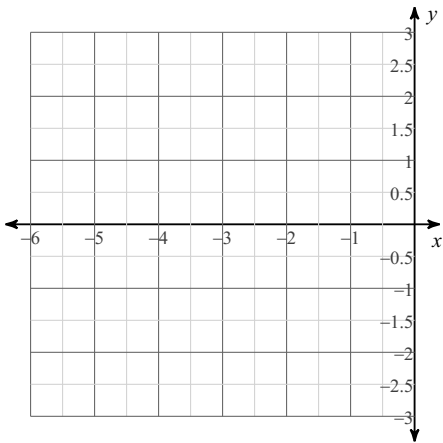
$$7) y = -(x - 3)^2 + 1$$



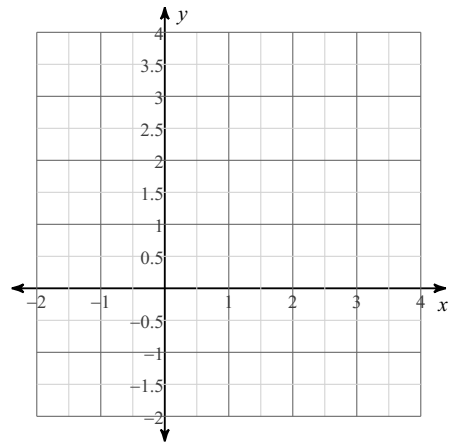
$$8) y = (x + 1)^2 + 2$$



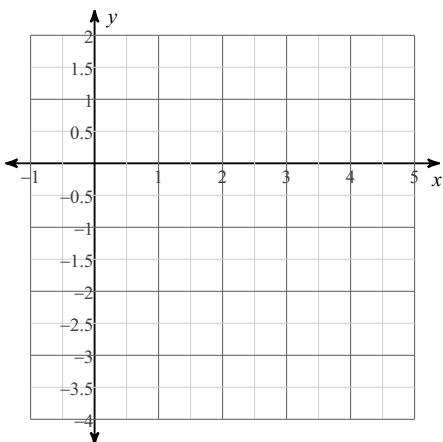
$$9) y = -(x + 2)^2 + 2$$



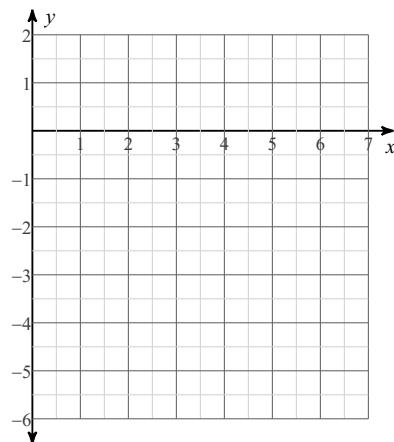
$$10) y = (x - 2)^2 - 1$$



$$11) y = -(x - 2)^2 + 1$$



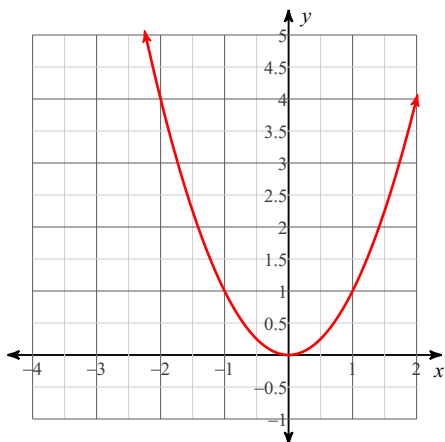
$$12) y = (x - 4)^2 - 4$$



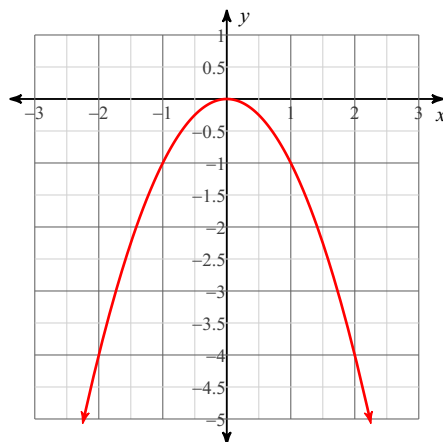
Graphs of Parabolas in Vertex Form

Sketch the graph of each function.

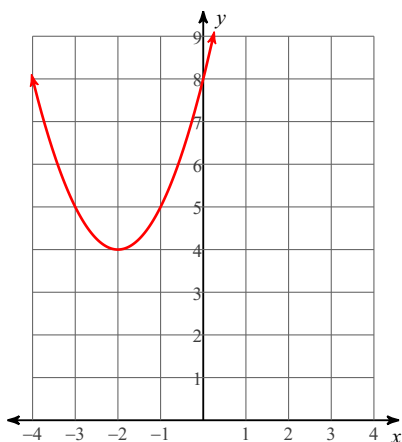
1) $y = x^2$



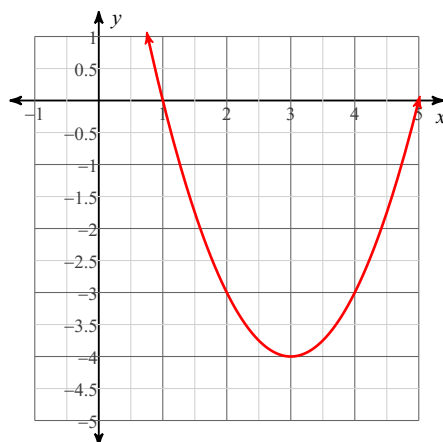
2) $y = -x^2$



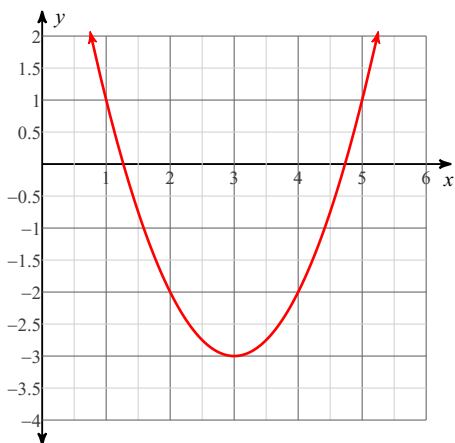
3) $y = (x + 2)^2 + 4$



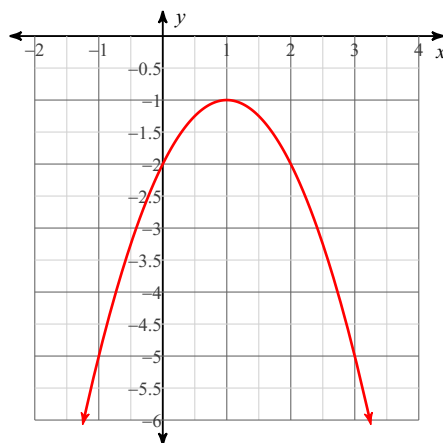
4) $y = (x - 3)^2 - 4$



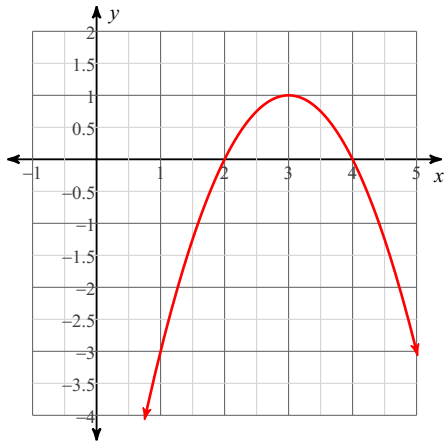
5) $y = (x - 3)^2 - 3$



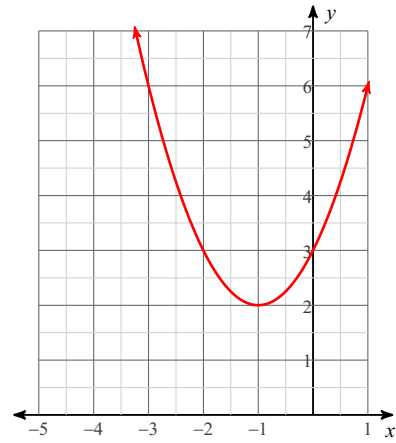
6) $y = -(x - 1)^2 - 1$



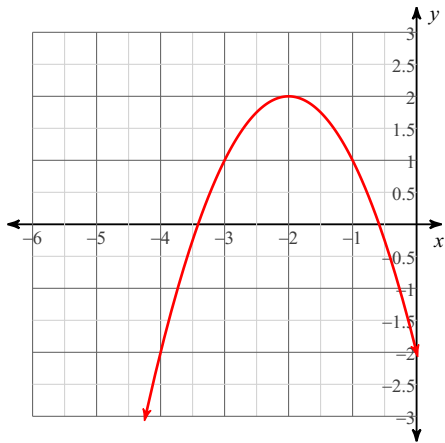
$$7) y = -(x - 3)^2 + 1$$



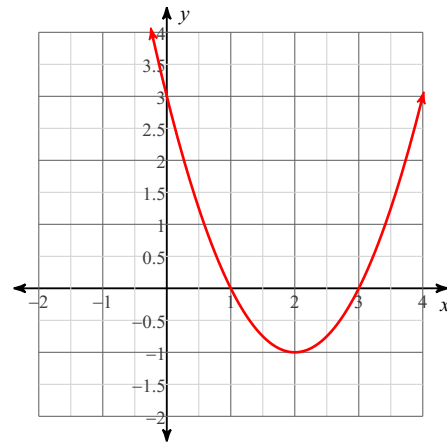
$$8) y = (x + 1)^2 + 2$$



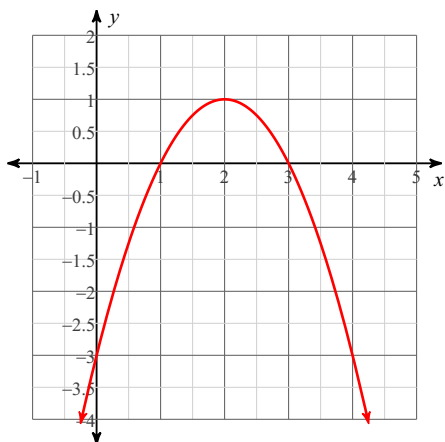
$$9) y = -(x + 2)^2 + 2$$



$$10) y = (x - 2)^2 - 1$$



$$11) y = -(x - 2)^2 + 1$$



$$12) y = (x - 4)^2 - 4$$

