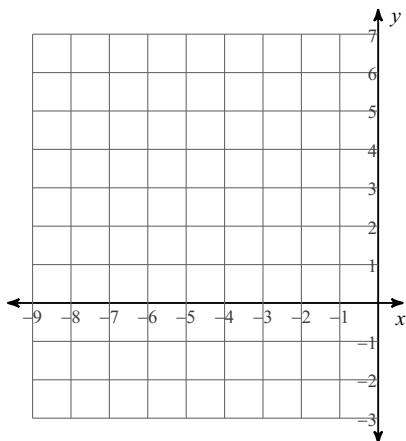


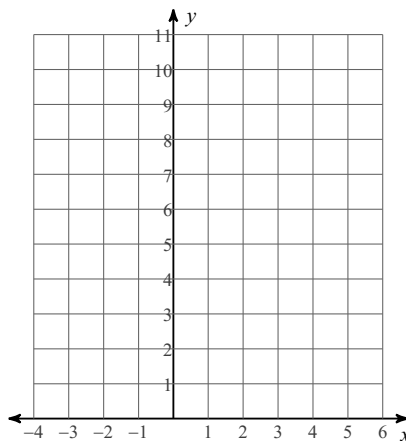
Sketch the graph of each function. Label the following:

- (1) Any Transformations
- (2) Vertex
- (3) Axis of symmetry
- (4) Any maximum or minimum values
- (5) Domain and range

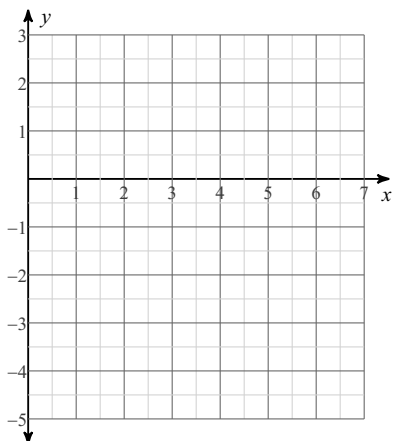
1) $f(x) = 2(x + 4)^2 - 2$



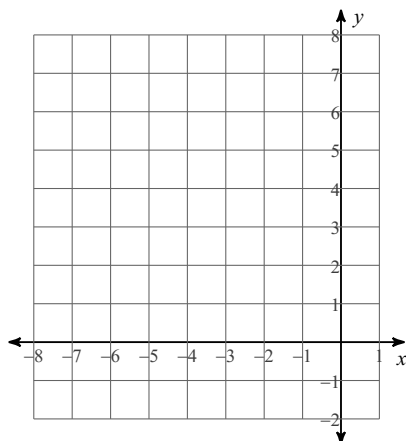
2) $f(x) = 2(x - 1)^2 + 2$



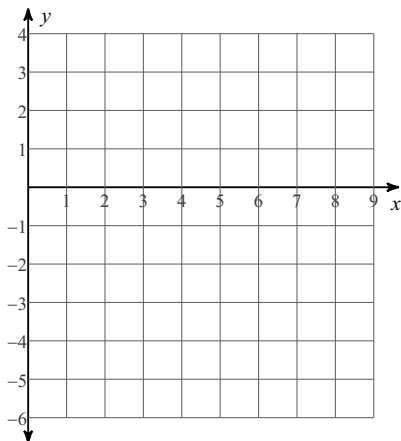
3) $f(x) = (x - 4)^2 - 3$



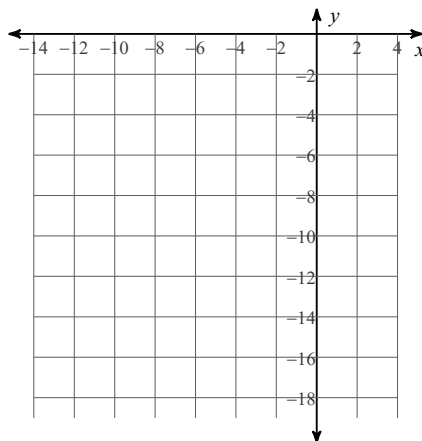
4) $f(x) = 2(x + 4)^2 - 1$



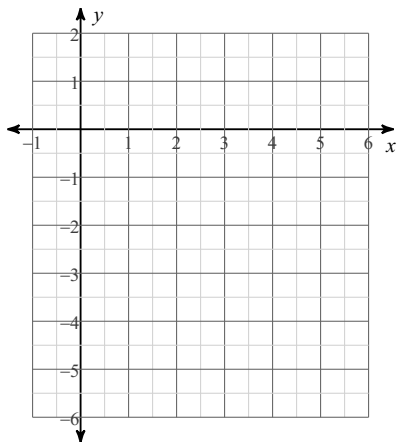
5) $f(x) = -2(x - 4)^2 + 3$



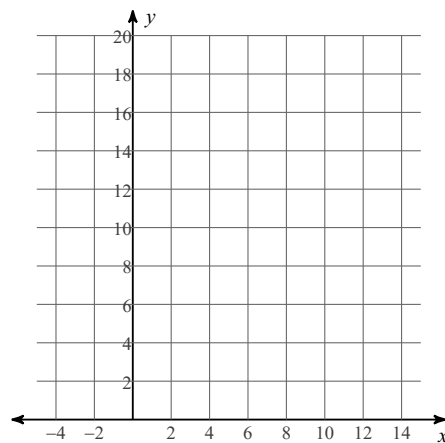
6) $f(x) = -4(x - 1)^2 - 2$



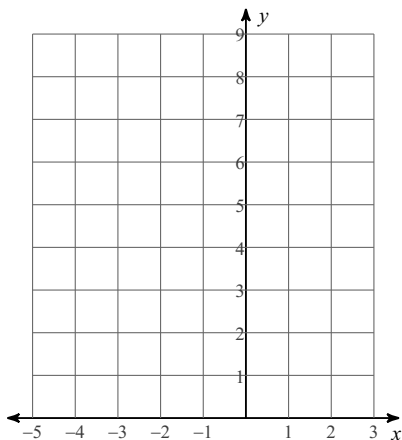
$$7) f(x) = -\frac{1}{2}(x-4)^2 - 1$$



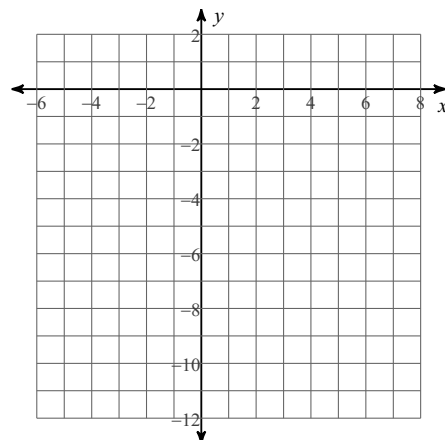
$$8) f(x) = 4(x-1)^2 + 3$$



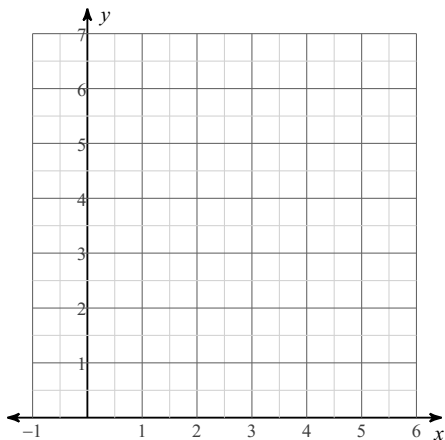
$$9) f(x) = (x+3)^2 + 4$$



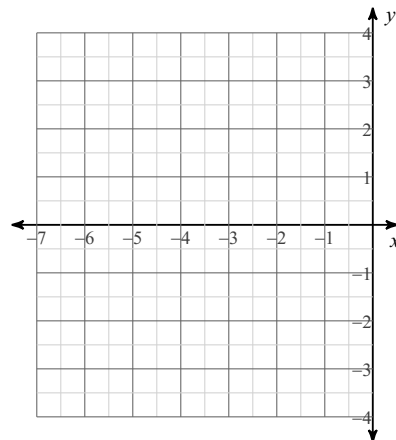
$$10) f(x) = -3(x+1)^2 + 1$$



$$11) f(x) = (x-4)^2 + 2$$

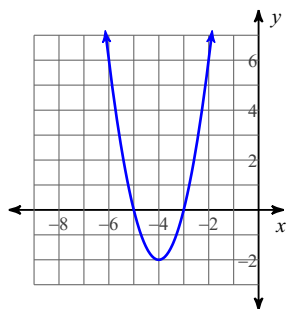


$$12) f(x) = -(x+4)^2 + 2$$

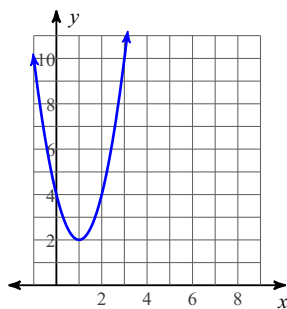


Answers to (ID: 1)

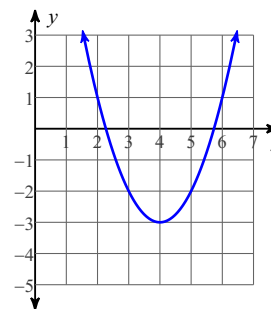
1)



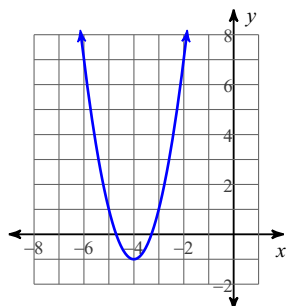
2)



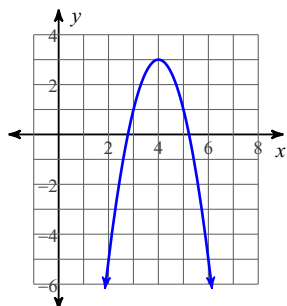
3)



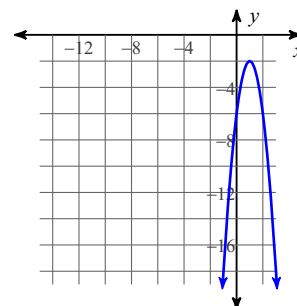
4)



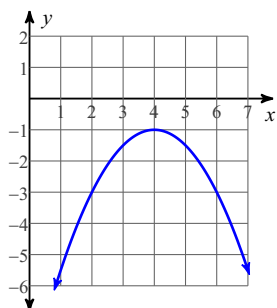
5)



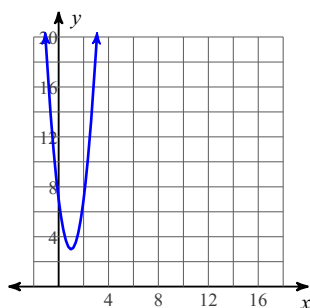
6)



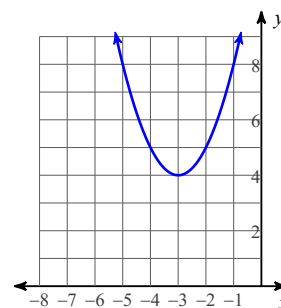
7)



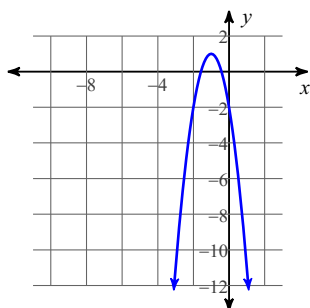
8)



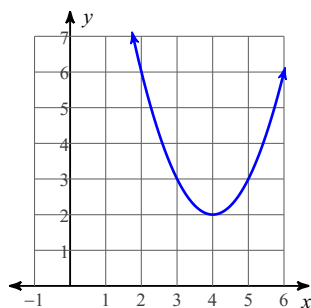
9)



10)



11)



12)

