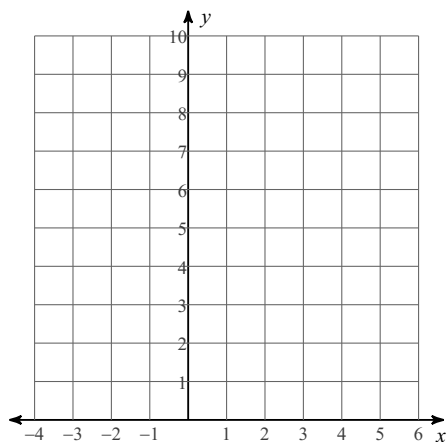


3.2 Transformations of Quadratics

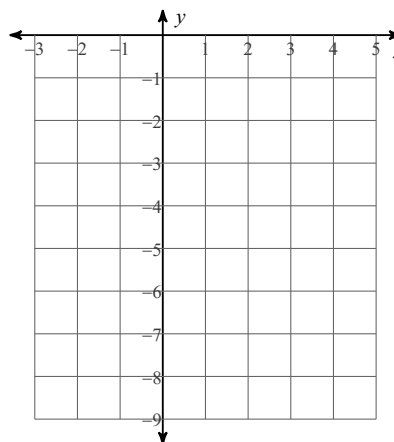
Date _____ Period _____

List all transformations to the parent function indicated by each and then graph the function.
State the Domain and Range.

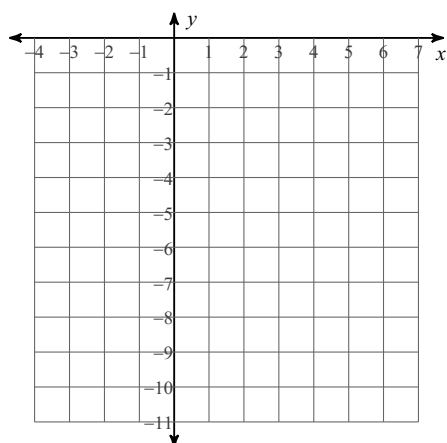
1) $y = 2(x - 1)^2 + 1$



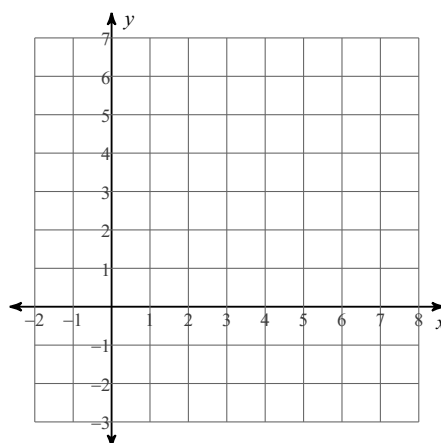
2) $y = -(x - 3)^2 - 4$



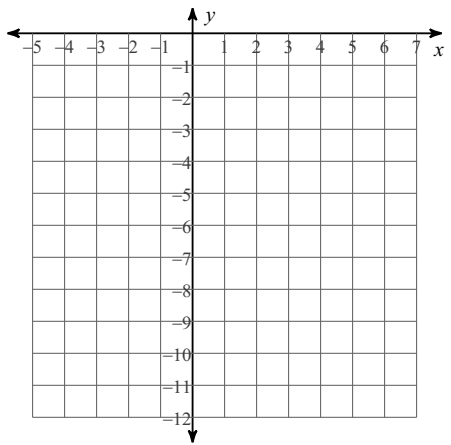
3) $y = -2(x - 4)^2 - 2$



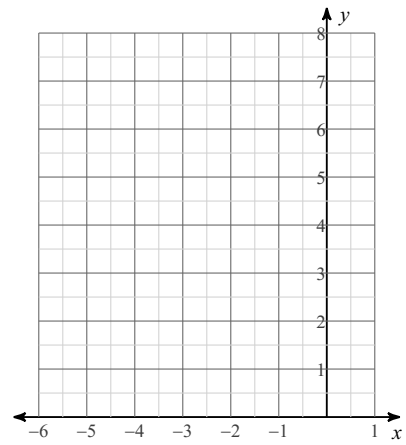
4) $y = 2(x - 3)^2 - 2$



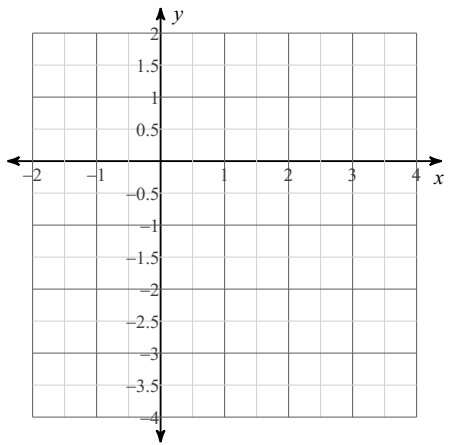
5) $y = -2(x - 1)^2 - 3$



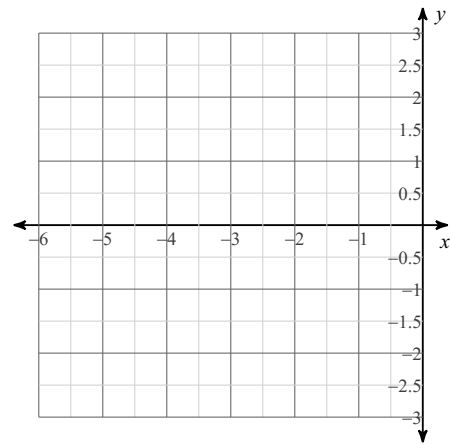
6) $y = (x + 4)^2 + 3$



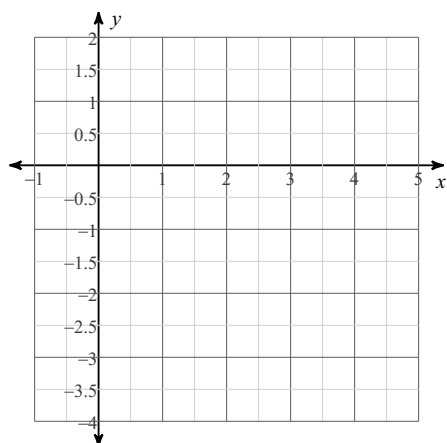
7) $y = (x - 1)^2 - 3$



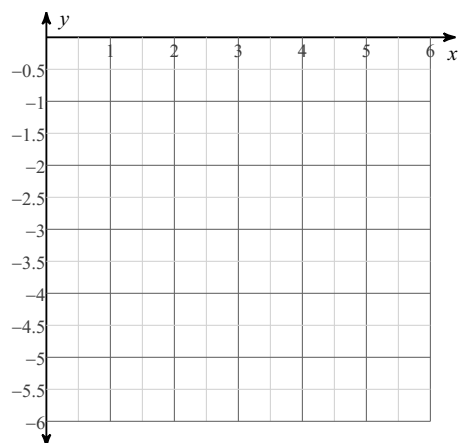
8) $y = (x + 3)^2 - 2$



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

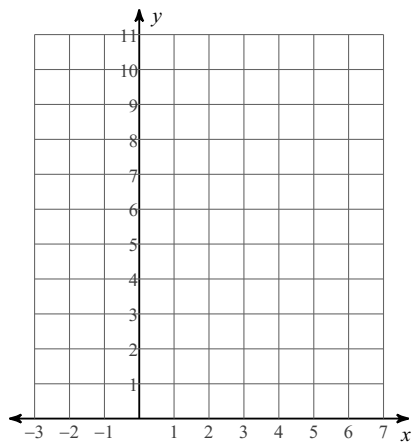


10) $y = -(x - 3)^2 - 1$

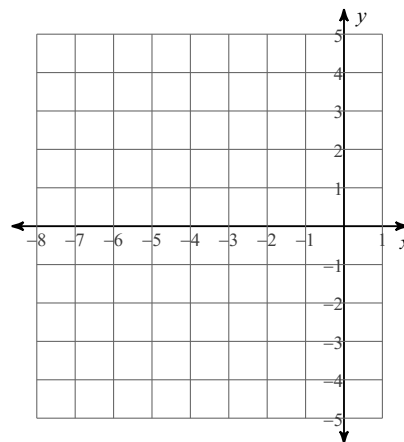


Convert to vertex form and then list all indicated transformations. Graph the function and state the domain and range.

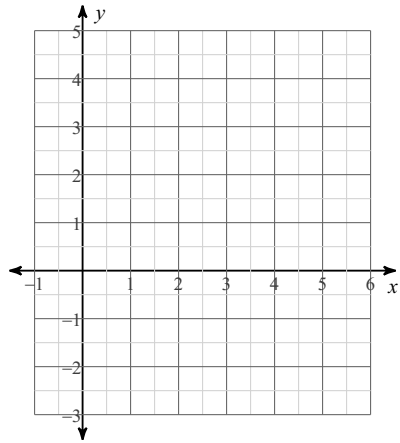
11) $y = 2x^2 - 4x + 4$



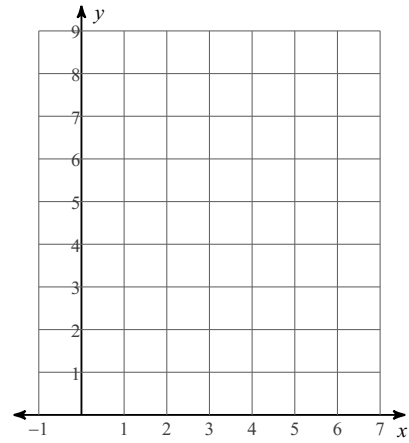
12) $y = -2x^2 - 16x - 28$



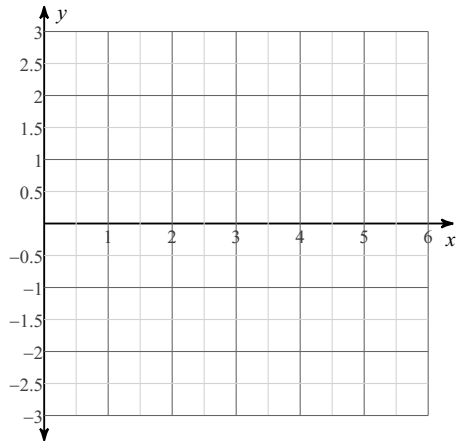
13) $y = x^2 - 8x + 15$



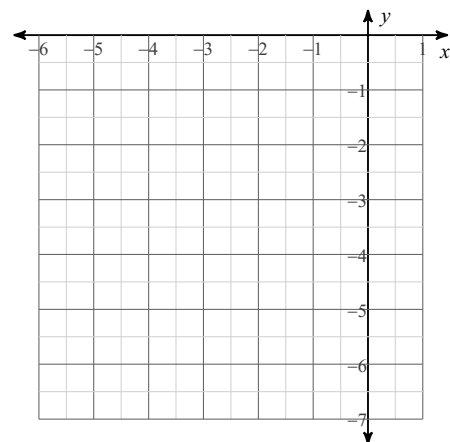
14) $y = x^2 - 2x + 5$



15) $y = -x^2 + 6x - 7$

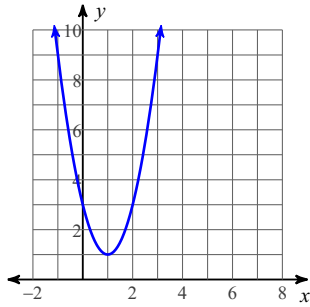


16) $y = -\frac{1}{2}x^2 - 4x - 12$

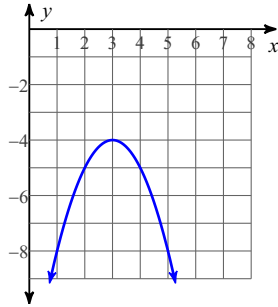


Answers to 3.2 Transformations of Quadratics

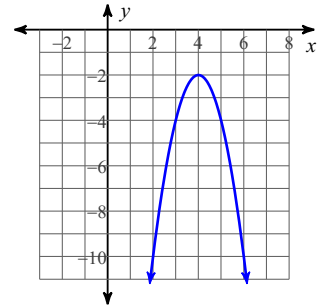
1)



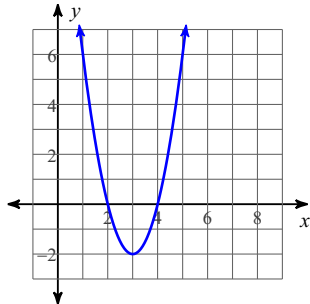
2)



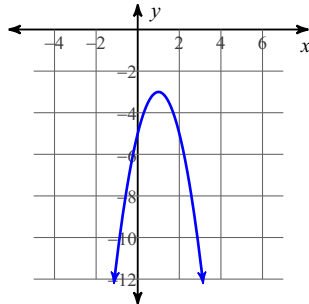
3)



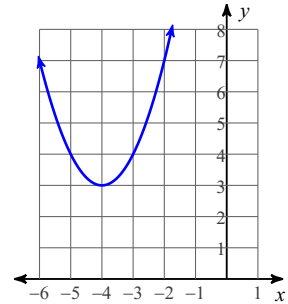
4)



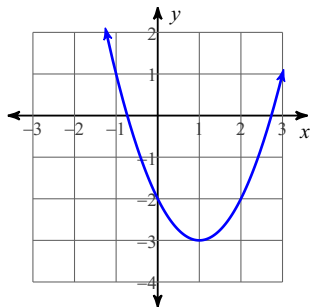
5)



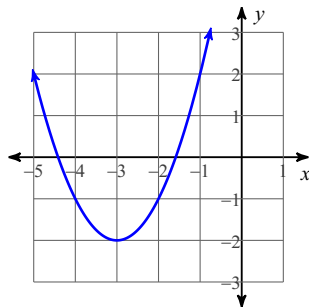
6)



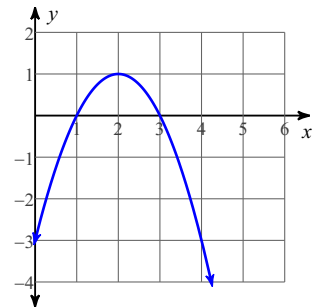
7)



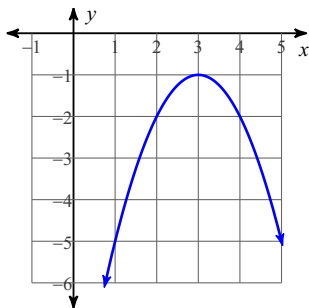
8)



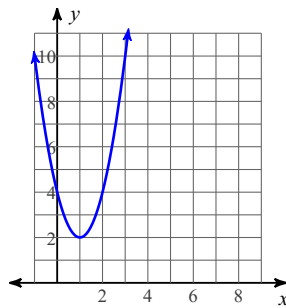
9)



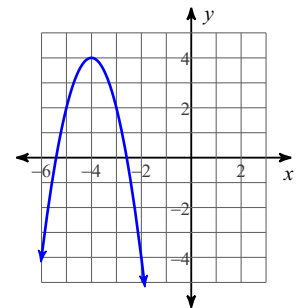
10)



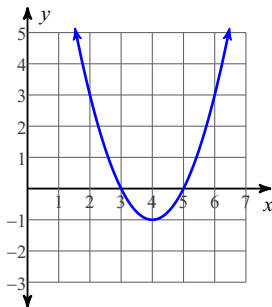
11)



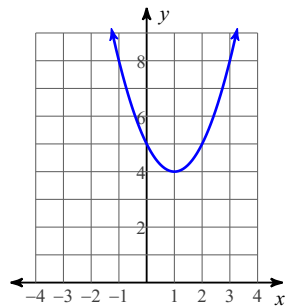
12)



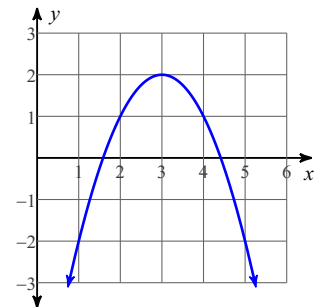
13)



14)



15)



16)

