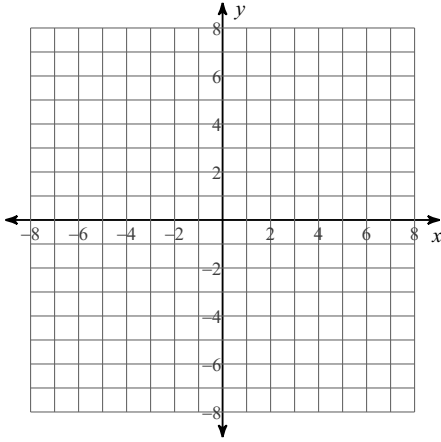


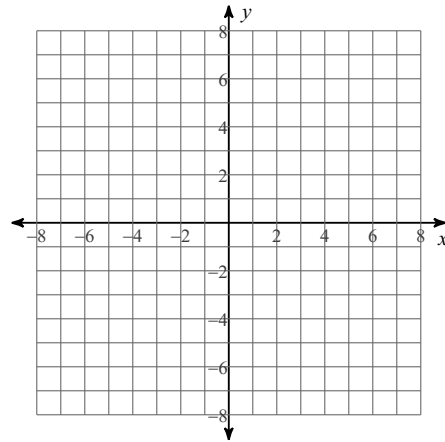
HW32: Unit 4 Review

Graph the function.

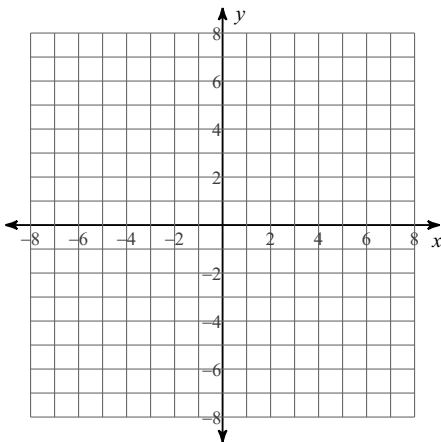
1) $f(x) = 2|x|$



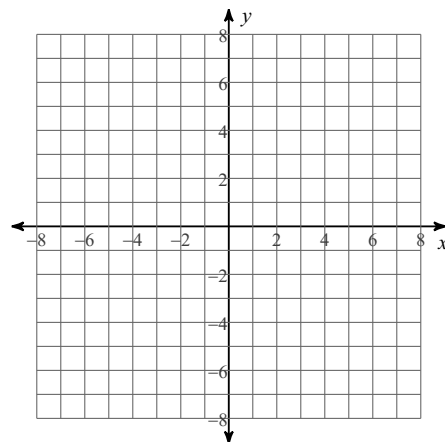
2) $f(x) = -\sqrt{x} + 4$



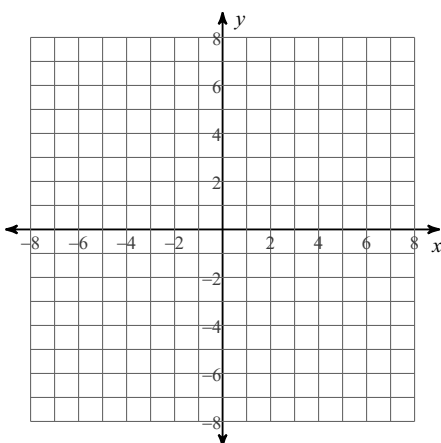
3) $f(x) = \sqrt{x-2}$



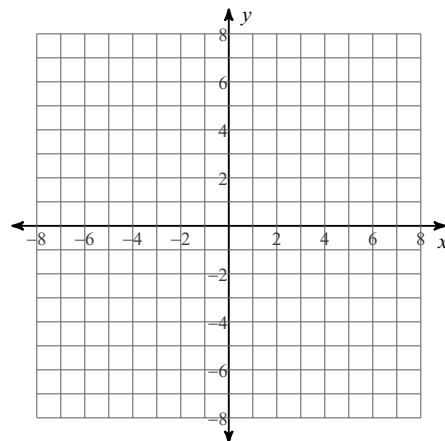
4) $f(x) = -(x-2)^2$



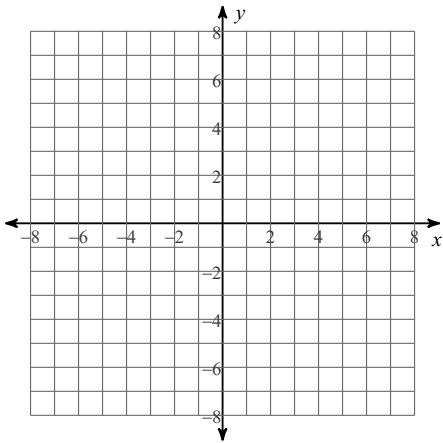
5) $f(x) = \frac{1}{2}(x-3)^2$



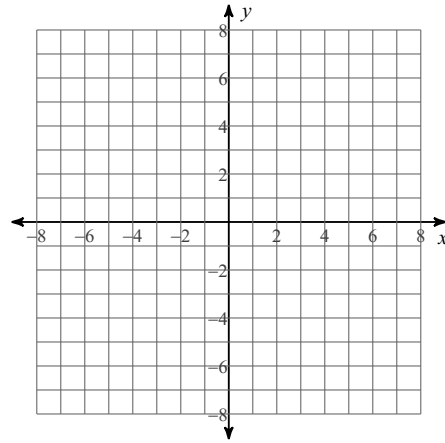
6) $f(x) = |x-3| - 5$



7) $f(x) = -x^2 + 7$

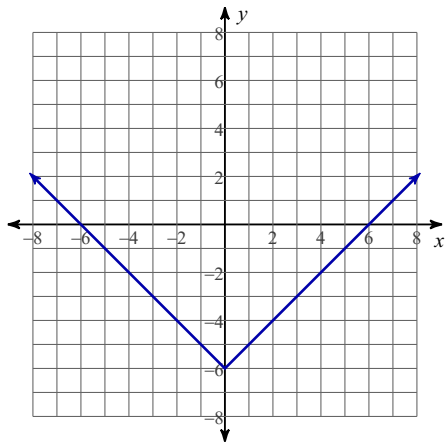


8) $f(x) = \sqrt{-x + 3}$

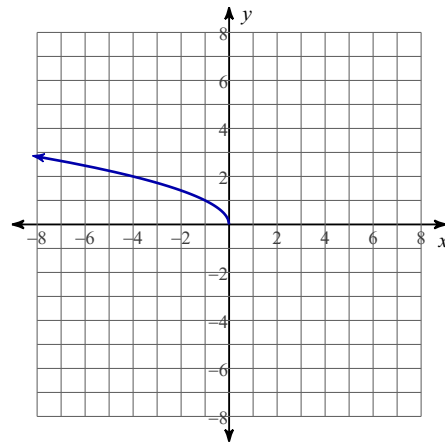


Write the function definitions for the given graphs.

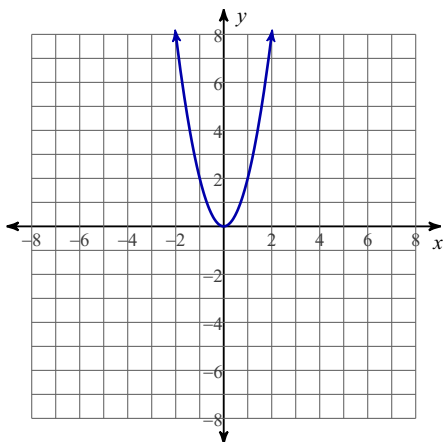
9)



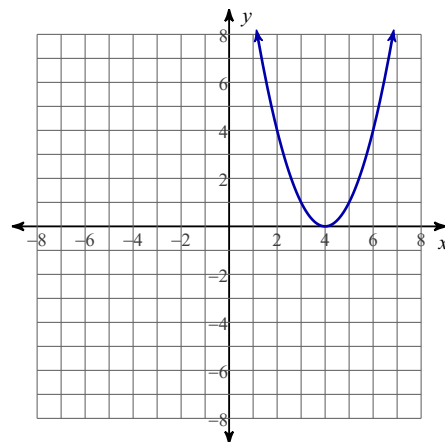
10)



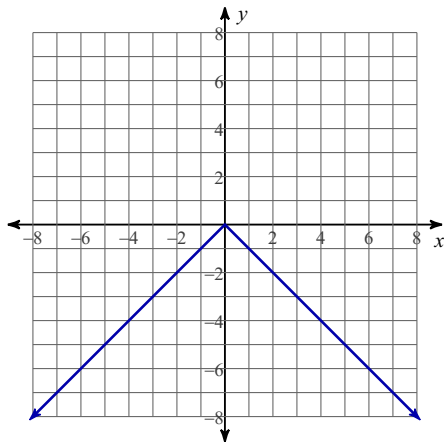
11)



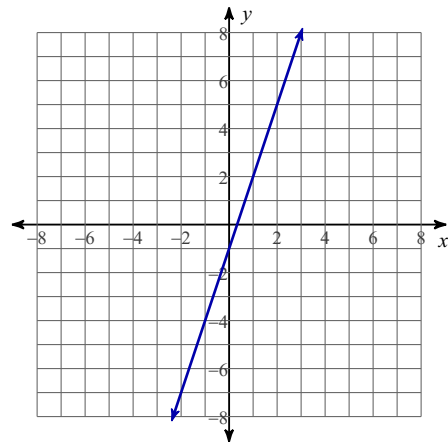
12)



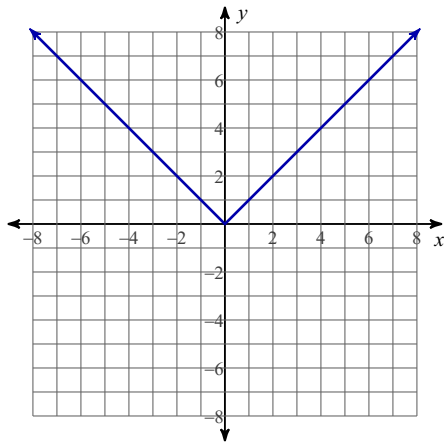
13)



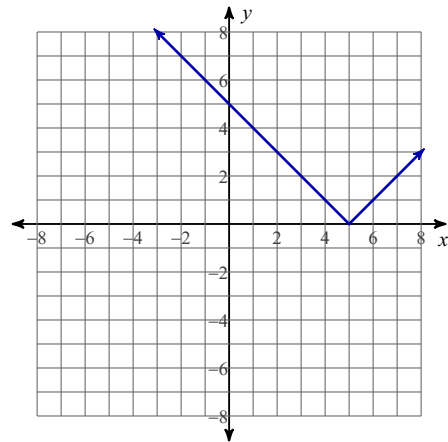
14)



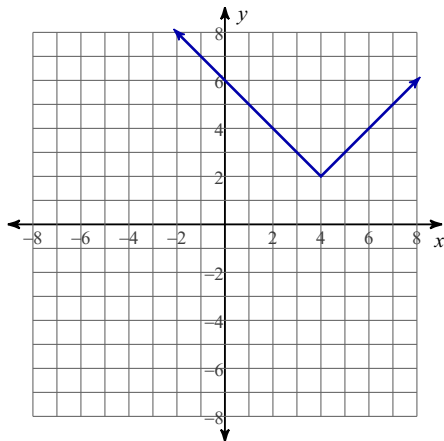
15)



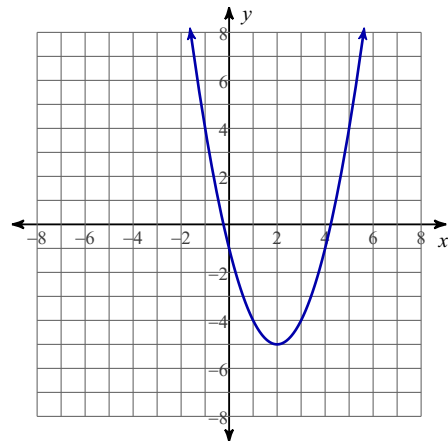
16)



17)



18)



Draw and label the function notation diagram.

19)

Define the following.

20) Function

Evaluate the function.

22) $f(x) = 3x^2 - 7$; Find $f(3)$

24) $f(x) = |-6x + 4| - 3$; Find $f(2)$

Solve the functions.

26) $f(x) = 3x - 7$; $f(x) = 2$

28) $f(x) = |2x + 7|$; $f(x) = 6$

21) Vertical Line Test

23) $f(x) = |16x + 4|$; Find $f(-1)$

25) $f(x) = 2x - 8$; Find $f(-5)$

27) $f(x) = 3x - 7$; $f(x) = 0$

29) $f(x) = |3x - 10|$; $f(x) = 1$