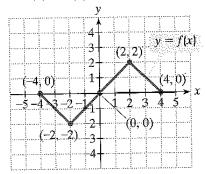
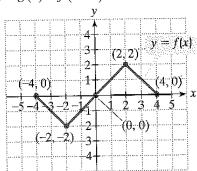
Use the graph of y = f(x) to graph each function g .

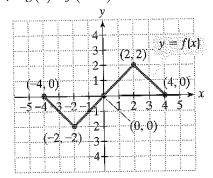
1)
$$g(x) = f(x) - 1$$



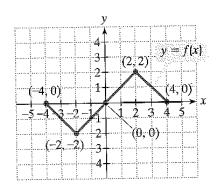
2)
$$g(x) = f(x-1)$$



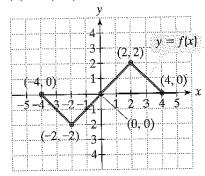
3) g(x)=f(x-1)+2



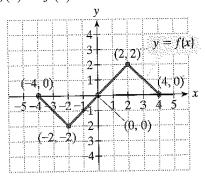
$$4) \quad g(x) = -f(x)$$



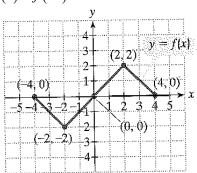
5)
$$g(x) = f(-x) + 1$$



$$6) \quad \overline{g(x) = 2f(x)}$$

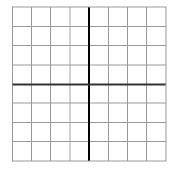


$$7) \quad \overline{g(x) = f(2x)}$$

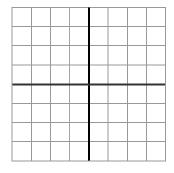


Use transformations of $f(x)=x^2$ to graph the given function.

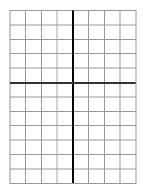
8)
$$g(x) = x^2 - 2$$



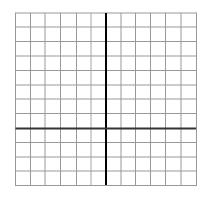
9)
$$g(x)=(x-2)^2$$



10)
$$g(x) = -(x-2)^2$$

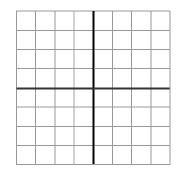


11)
$$g(x) = (x-2)^2 + 1$$

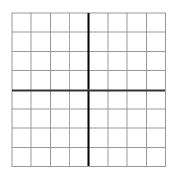


Use transformations of $f(x) = \sqrt{x}$ to graph the given function.

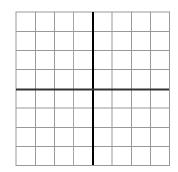
12)
$$g(x) = \sqrt{x} + 2$$



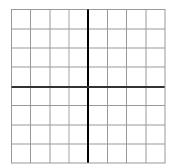
13)
$$g(x) = \sqrt{x+2}$$



14)
$$g(x) = -\sqrt{x+2}$$

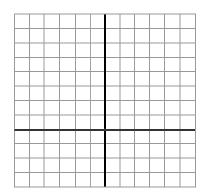


15)
$$g(x) = \sqrt{x+2} - 2$$

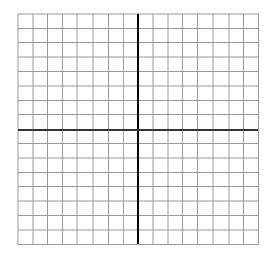


Use transformations of f(x) = |x| to graph the given function.

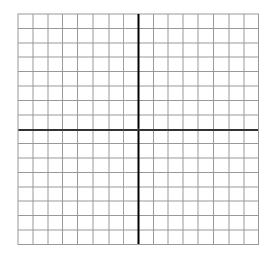
16)
$$g(x) = |x| + 4$$



17)
$$g(x) = |x+4| - 2$$

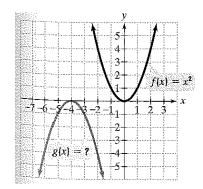


18)
$$g(x) = -|x+4|+1$$

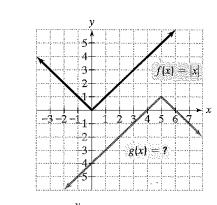


Functions f and g are graphed in the same rectangular coordinate system. If g is obtained from f through a sequence of transformations, find an equation for g.

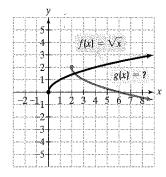
19)



20)

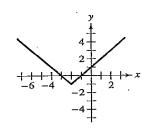


21)

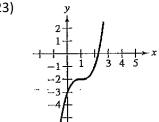


Identify the parent function, state the transformations, and write an equation for the function shown in the graph.

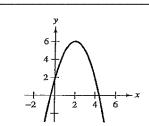
22)



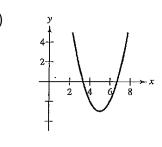
23)



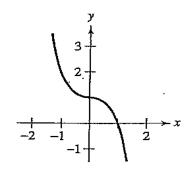
24)



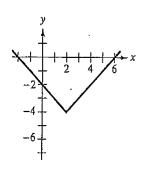
25)



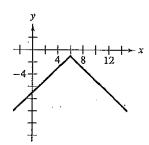
26)



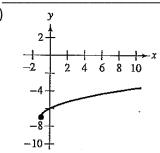
27)



28)



29)



30)

