

5-2 Parent Graphs

Name _____

For each parent graph, describe the transformations that have taken place in the related graph of each function.

1. $f(x) = x^2$

a.) $y = x^2 + 4$ _____

b.) $y = 2x^2$ _____

c.) $y = -x^2$ _____

d.) $y = (x + 3)^2$ _____

e.) $y = (x - 1)^2 + 2$ _____

f.) $y = -x^2 - 3$ _____

g.) $y = 3x^2 + 4$ _____

h.) $y = \frac{1}{2}(x - 1)^2 + 1$ _____

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

a.) $y = |x| + 3$ _____

b.) $y = |x + 4|$ _____

c.) $y = 2|x| + 3$ _____

d.) $y = |x - 4| + 2$ _____

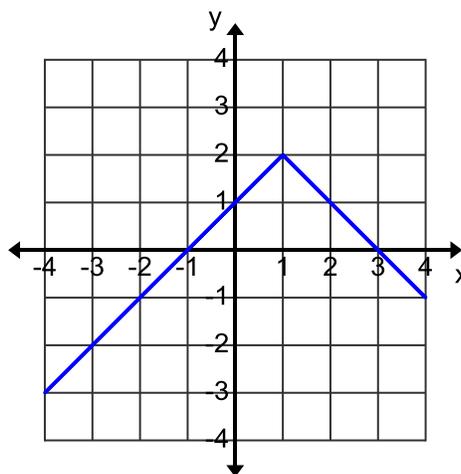
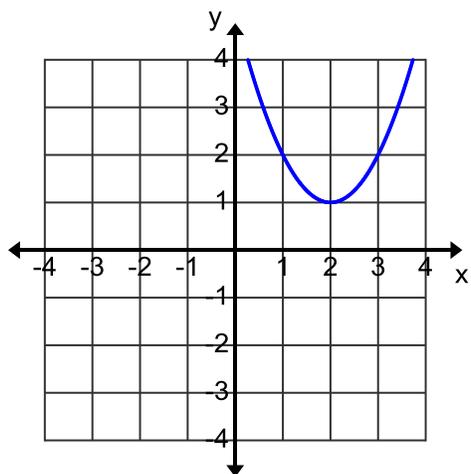
e.) $y = -|x| + 3$ _____

f.) $y = 3|x + 4|$ _____

g.) $y = .3|x - 7|$ _____

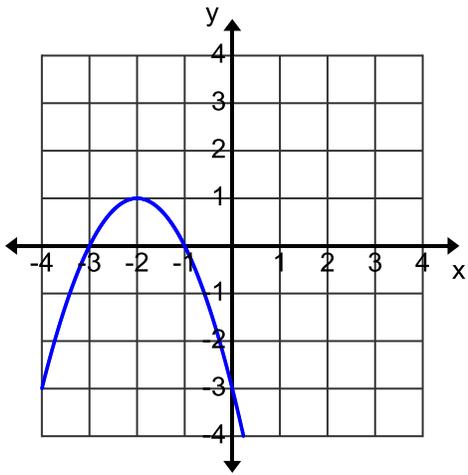
h.) $y = -4|x - 1| + 6$ _____

Give the equation for the graph that appears to have been graphed.

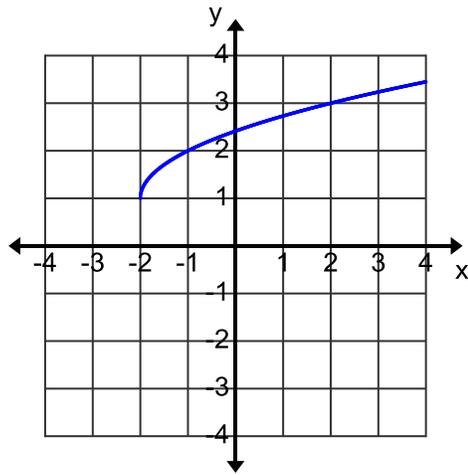


3. _____

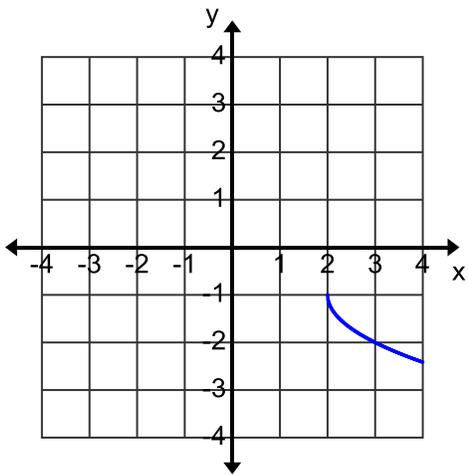
4. _____



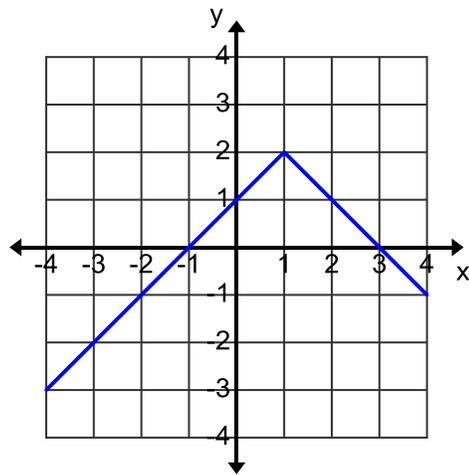
5. _____



6. _____



7. _____



8. _____