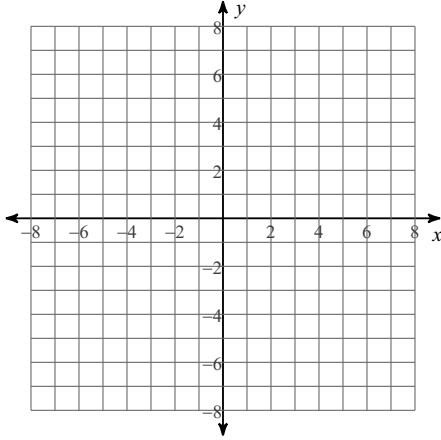


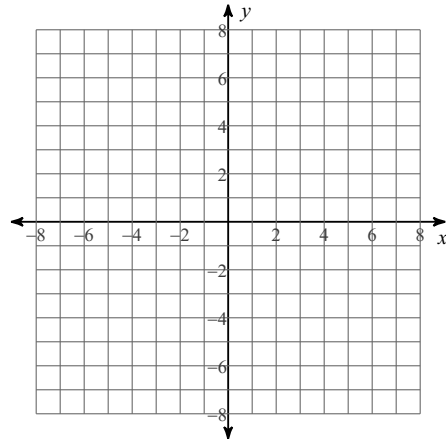
Homework 1.5 Day 2

Describe the transformation from the parent function to  $f(x)$ . Then sketch the graph.

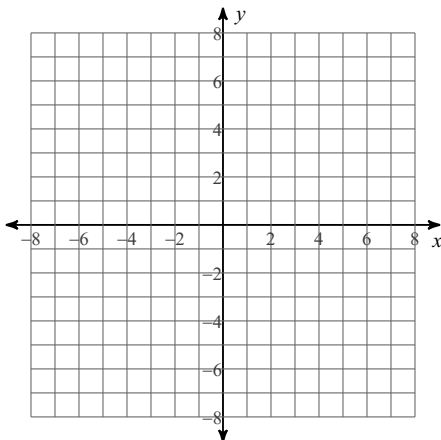
1)  $f(x) = -(x - 4)^2 + 4$



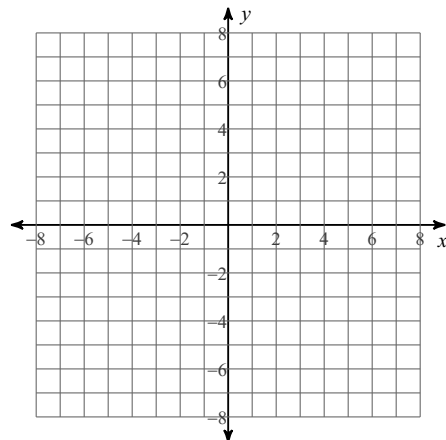
2)  $f(x) = -\frac{1}{4}(x - 1)^2 + 1$



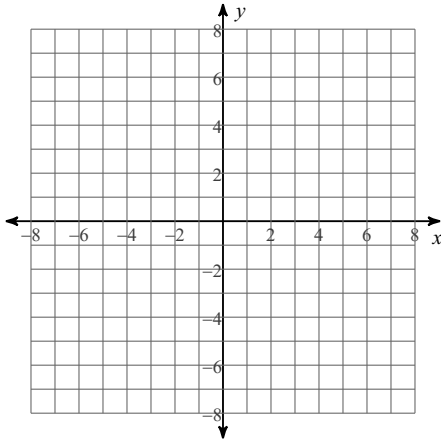
3)  $f(x) = (x - 6)^2$



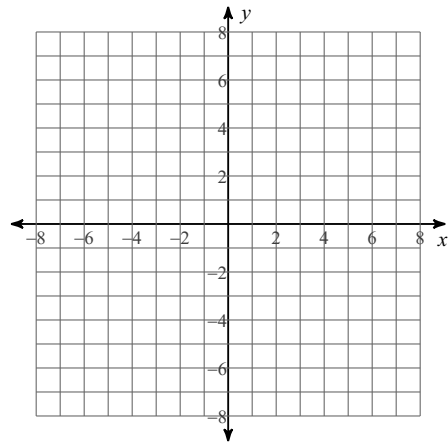
4)  $f(x) = 2(x - 2)^2 - 5$



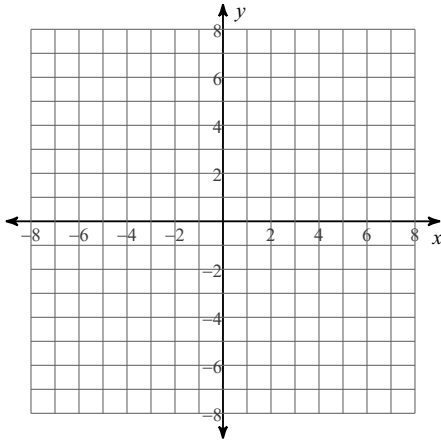
5)  $y = 4\sqrt{x-3}$



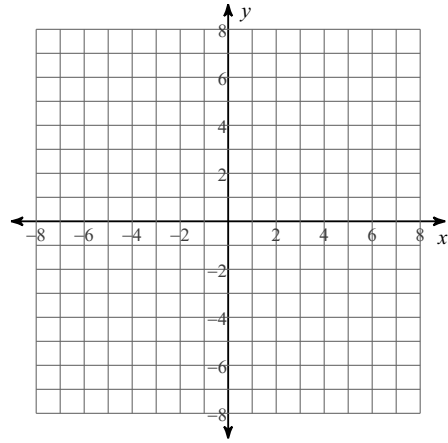
6)  $y = \frac{1}{2}\sqrt{x-3} + 5$



7)  $y = \sqrt{x} - 1$

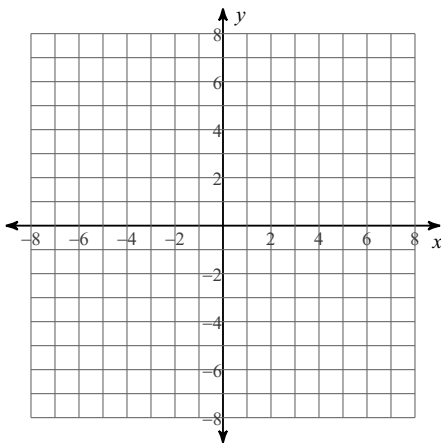


8)  $y = 1 + \sqrt{x-3}$



**Graph each function.**

9)  $f(x) = \frac{3}{x} + 1$



10)  $f(x) = -\frac{1}{x+1} + 2$

