

Math 2

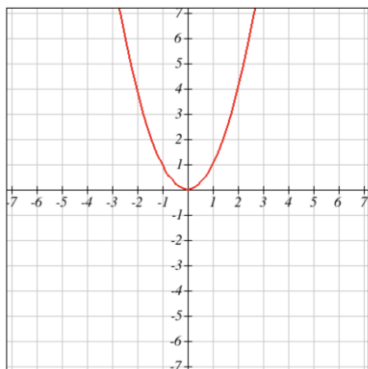
Name _____

Transformations

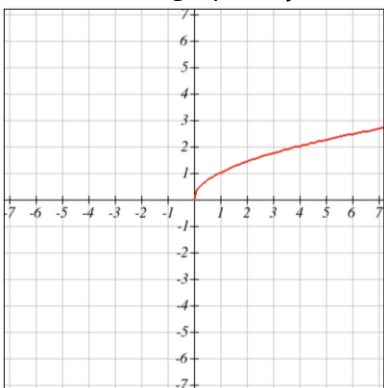
Date _____ Per _____

For each problem describe the transformation and sketch a graph.

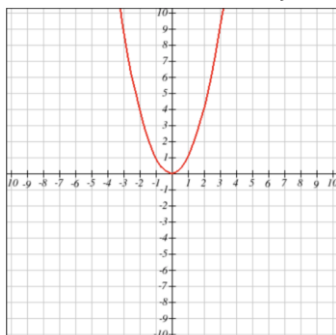
1. Given the graph of $f(x) = x^2$ as shown, graph the function $f(x + 3)$



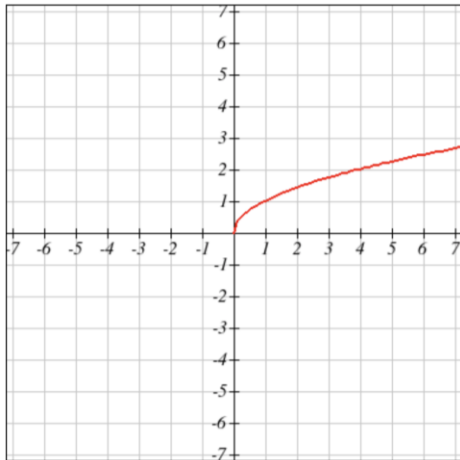
2. Given the graph of $f(x) = \sqrt{x}$ as shown, graph the function $f(x - 1)$



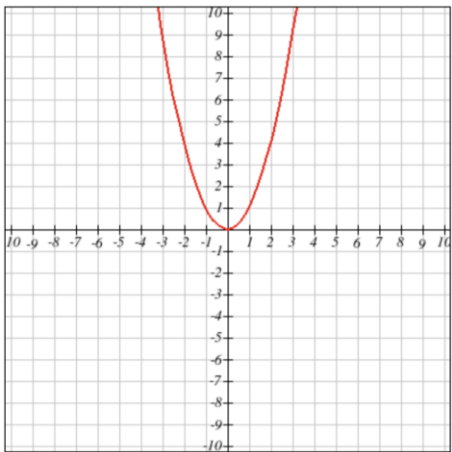
3. Given the graph of $f(x) = x^2$ as shown, graph the function $f(x) + 4$



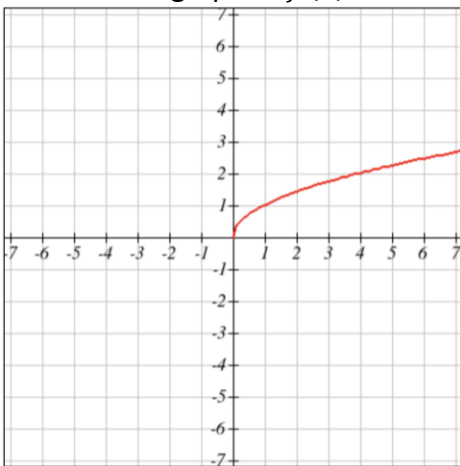
4. Given the graph of $f(x) = \sqrt{x}$ as shown, graph the function $f(x) - 5$



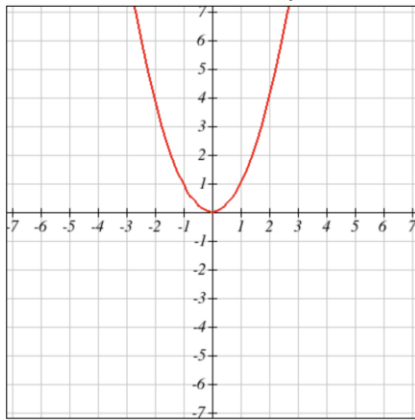
5. Given the graph of $f(x) = x^2$ as shown, graph the function $f(x + 3) + 5$



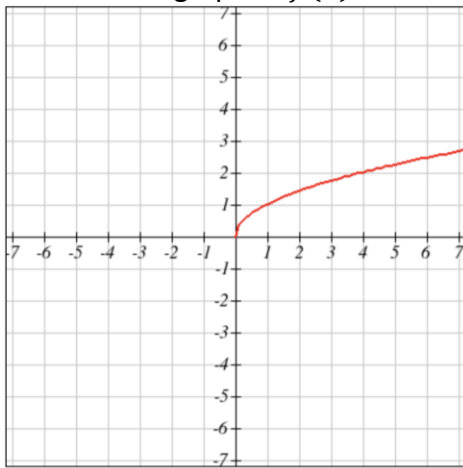
6. Given the graph of $f(x) = \sqrt{x}$ as shown, graph the function $f(x + 5) + 2$



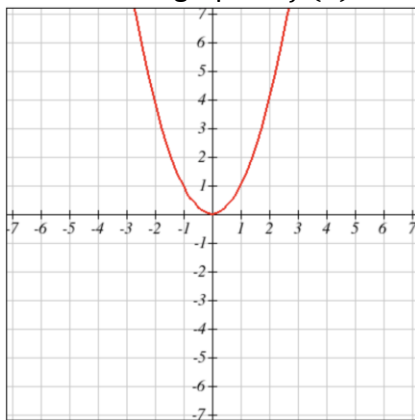
7. Given the graph of $f(x) = \sqrt{x}$ as shown, graph the function $-f(x - 1)$



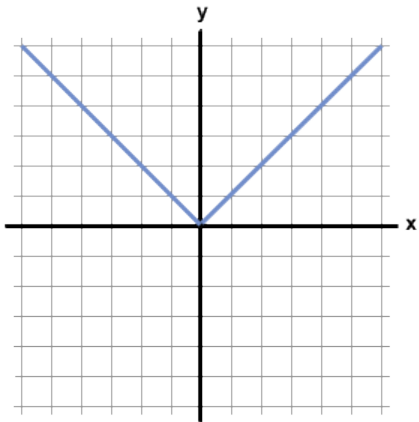
8. Given the graph of $f(x) = \sqrt{x}$ as shown, graph the function $-f(x) - 3$



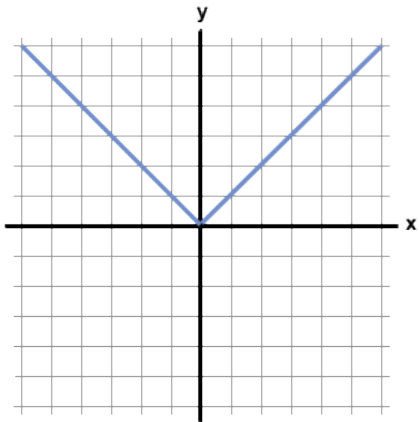
9. Given the graph of $f(x) = \sqrt{x}$ as shown, graph the function $-3f(x + 5)$



10. Given the graph of $f(x) = |x|$ as shown, graph the function $\frac{1}{2}f(x - 2) + 1$



11. Given the graph of $f(x) = |x|$ as shown, graph the function $-2f(x) + 4$



12. Given the graph of $f(x) = |x|$ as shown, graph the function $-\frac{1}{4}f(x + 2) - 3$

