

Name _____

Period _____

Date _____

Trigonometry/PreCalculus Level 1
1.5 Worksheet

Describe the transformation of each graph.

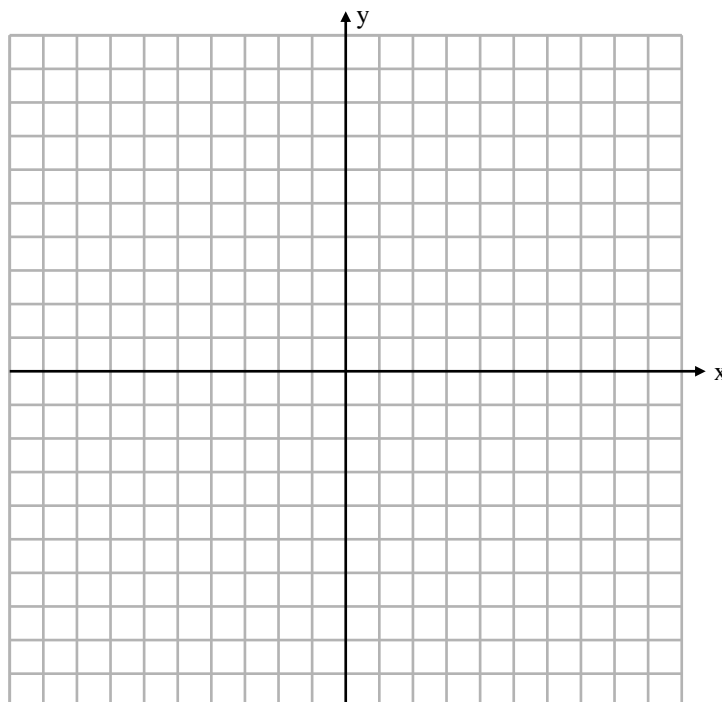
1) How does the graph of $g(x) = 2(x-3)^2 + 7$ compare with the graph of $f(x) = x^2$?

2) How does the graph of $g(x) = |x+1| - 3$ compare with the graph of $f(x) = |x|$?

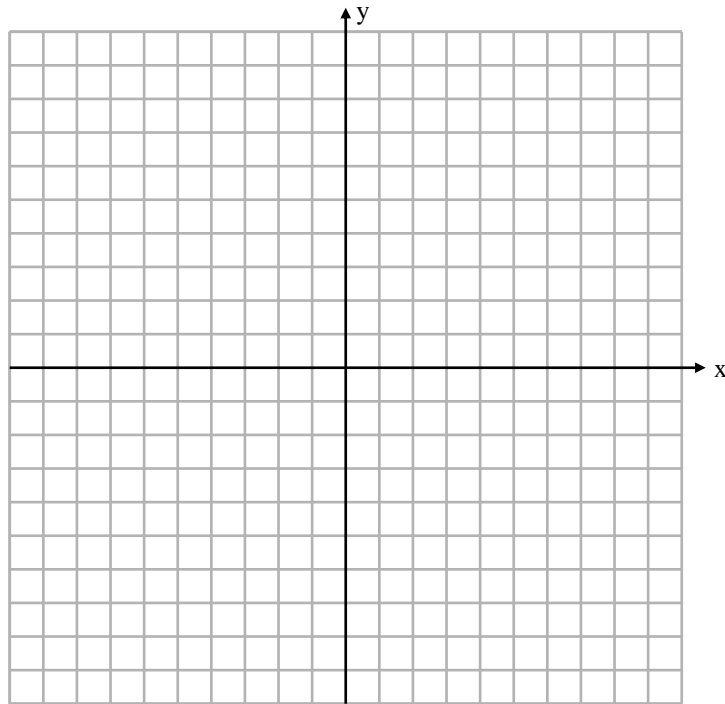
3) How does the graph of $g(x) = -4(x+2)^3$ compare with the graph of $f(x) = x^3$?

4) How does the graph of $g(x) = \frac{3}{4}x + 8$ compare with the graph of $f(x) = x$?

5) Graph the parent function $f(x) = x^2$ and the new function $g(x) = 4(x-2)^2 - 6$ on the graph below.
Describe the transformation of $f(x)$ to $g(x)$.



- 6) Graph the parent function $f(x) = |x|$ and the new function $g(x) = -|x - 7|$ on the graph below.
Describe the transformation of $f(x)$ to $g(x)$.



- 7) Graph the parent function $f(x) = x^3$ and the new function $g(x) = (x + 5)^3 - 3$ on the graph below.
Describe the transformation of $f(x)$ to $g(x)$.

