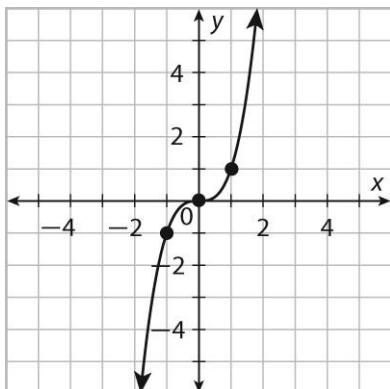


Graphing Cubic Functions

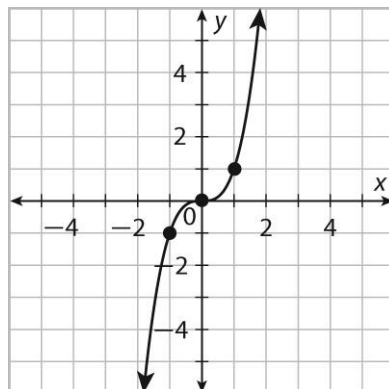
Practice and Problem Solving: A/B

Graph the transformation. (The graph of the parent function is shown.)

1. $g(x) = (x - 3)^3 + 2$

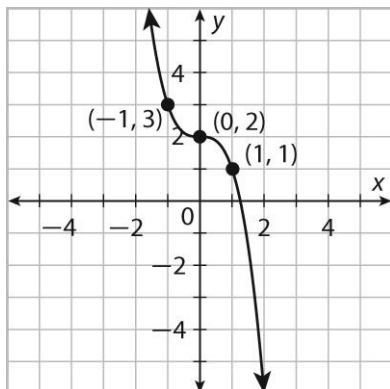


2. $g(x) = -3(x + 2)^3 - 2$

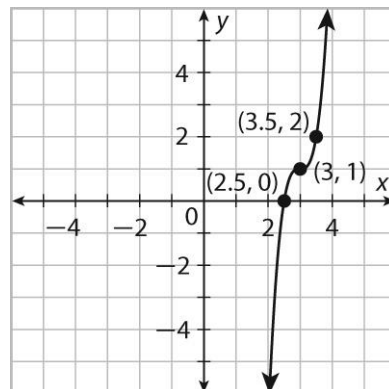


Write the equation of the cubic function whose graph is shown.

3.



4.



Solve.

5. The graph of $f(x) = x^3$ is reflected across the x -axis. The graph is then translated 11 units up and 7 units to the left. Write the equation of the transformed function.

6. The graph of $f(x) = x^3$ is stretched vertically by a factor of 6. The graph is then translated 9 units to the right and 3 units down. Write the equation of the transformed function.
