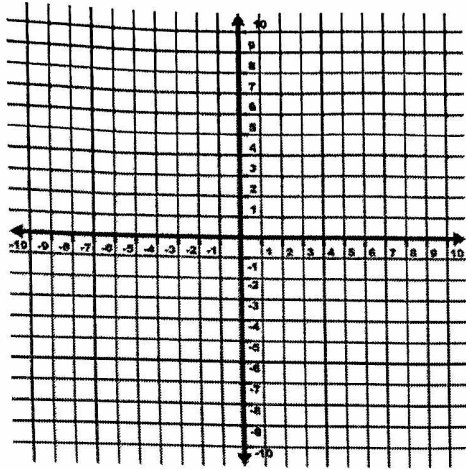


# AA PREP: GRAPHING CUBIC FUNCTIONS WITH TRANSFORMATIONS—WORKSHEET #1

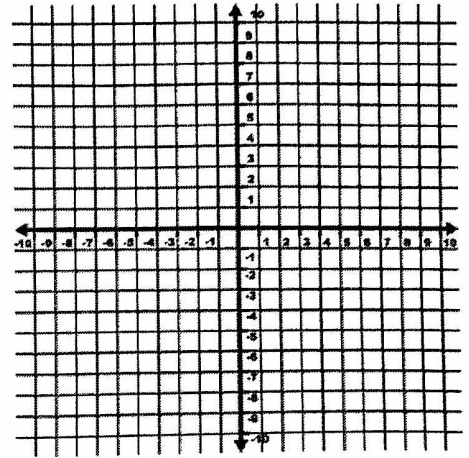
Graph the cubic parent function. Then, graph each of the following cubic functions using transformations. State domain and range.

1.  $y = x^3$



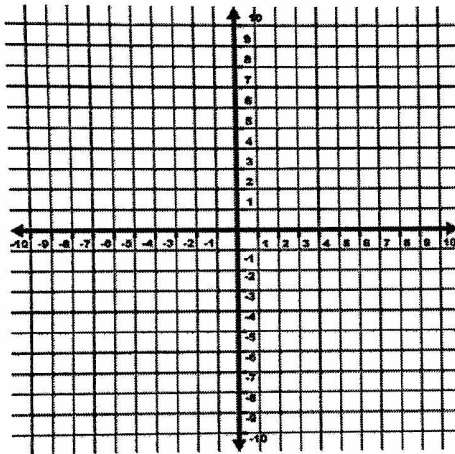
Domain: \_\_\_\_\_ Range: \_\_\_\_\_

2.  $g(x) = (x+4)^3$



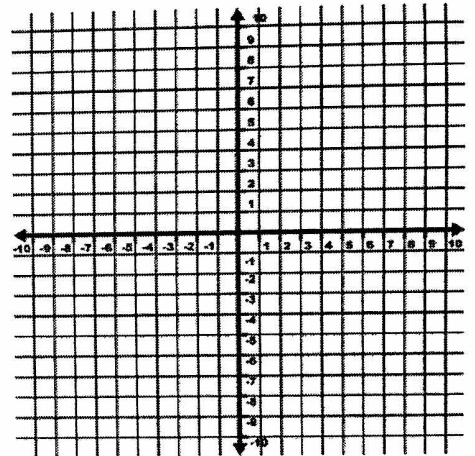
Domain: \_\_\_\_\_ Range: \_\_\_\_\_

3.  $y = x^3 - 4$



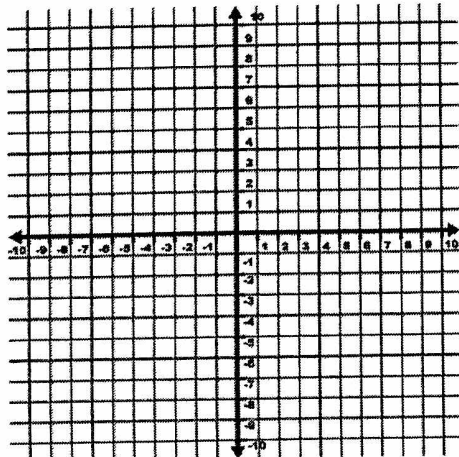
Domain: \_\_\_\_\_ Range: \_\_\_\_\_

4.  $y = \frac{1}{4}x^3$



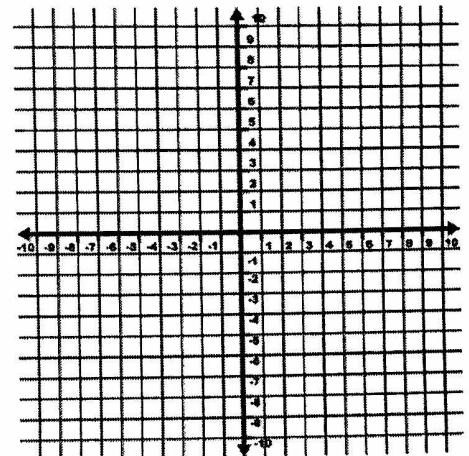
Domain: \_\_\_\_\_ Range: \_\_\_\_\_

5.  $g(x) = -x^3$



Domain: \_\_\_\_\_ Range: \_\_\_\_\_

6.  $f(x) = 4x^3$



Domain: \_\_\_\_\_ Range: \_\_\_\_\_