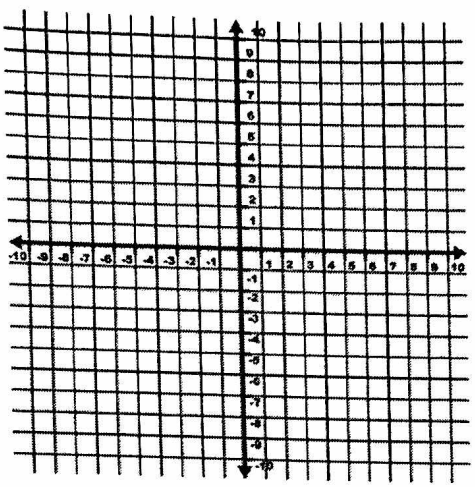


AA PREP: GRAPHING RATIONAL FUNCTIONS WITH TRANSFORMATIONS—LECTURE

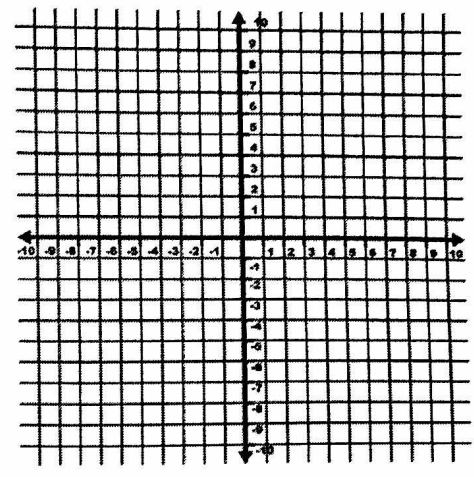
Graph the rational parent function. Then, graph each of the following rational functions using transformations. State domain and range.

1. $y = \frac{1}{x}$



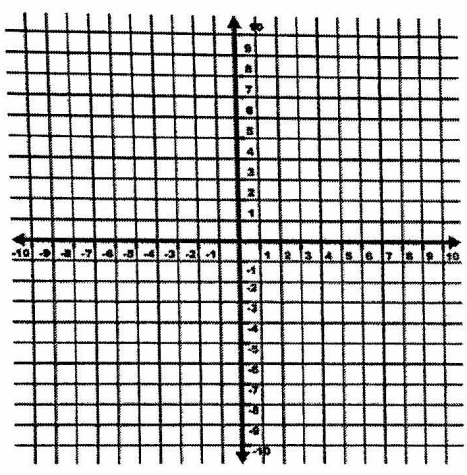
Domain: _____ Range: _____

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



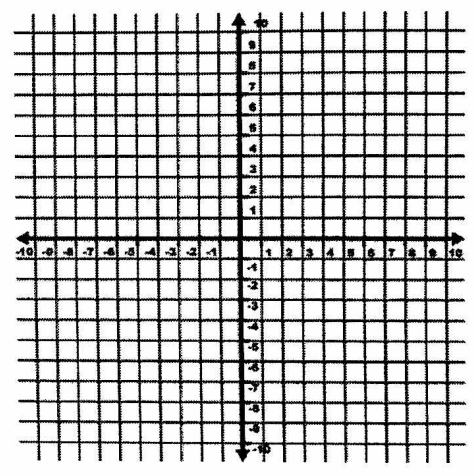
Domain: _____ Range: _____

3. $f(x) = \frac{1}{x} - 3$



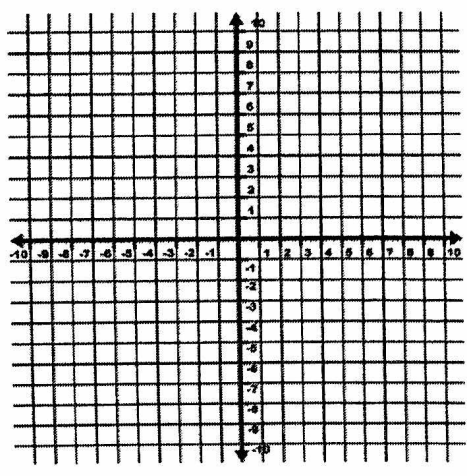
Domain: _____ Range: _____

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



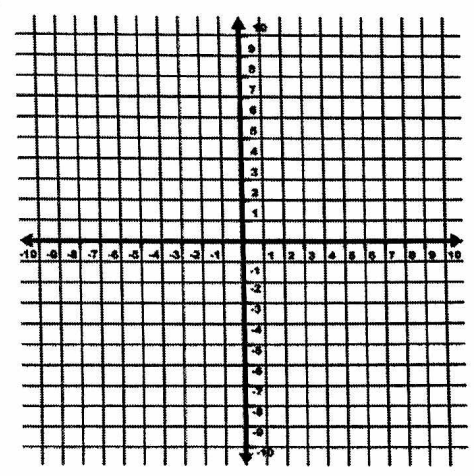
Domain: _____ Range: _____

5. $g(x) = \frac{3}{x}$



Domain: _____ Range: _____

6. $g(x) = \frac{1}{x-4} + 5$



Domain: _____ Range: _____