

Name: _____

Per: _____

POINTS: _____

Classwork #21 Quiz

Be sure to include your work when appropriate.**Describe the transformation of the rational parent function, $f(x) = \frac{1}{x}$ that will result in the graph of the rational function given.**

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

2. $f(x) = \frac{1}{x} - 5$

3. $f(x) = \frac{1}{-0.5x}$

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Identify the domain, range, horizontal and vertical asymptotes, x-intercept and y-intercept of the rational function. Write the domain and range in set builder notation.

4. $f(x) = \frac{5}{x+7} + 3$

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