

Algebraic Reasoning

Name: _____

Per: _____

POINTS: _____

Homework #17 Quiz

Be sure to include your work when appropriate.

Describe the transformation of the linear parent function, $f(x) = x$, that will result in the graph of the linear function given.

1. $g(x) = -2(x) + 5$

2. $g(x) = \frac{2}{3}(6x + 1) - 3$

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Identify the domain, range, x-intercept, and y-intercept of the linear function described by the equation and the graph. Write the domain and range as inequalities.

3. $f(x) = \frac{1}{3}(x - 6) - 7$

Identify the domain, range, x-intercept, and y-intercept of the linear function described by the equation and the graph. Write the domain and range as intervals.

4. $f(x) = \frac{1}{2}(-6x - 3)$

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