Algebraic Reasoning

Name:_____

Per:_____

POINTS:____

Classwork #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. $h(x) = 3(x+ 2)$

2. $h(x) = -4(\frac{1}{2}x - 3) + 4$

Identify the domain, range, x-intercept and y-intercept of the linear function described by the equation shown below. Write the domain and range as inequalities, as intervals, and in set builder notation.

3. $f(x) = (2x + 3)$

4. $-3(2x + 5) + 9$

5. $f(x) = \frac{-2}{5}(x + 8)$