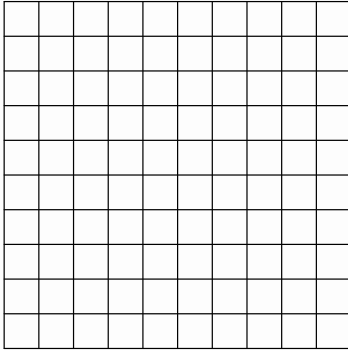**Name:_____**   **Period:_____**
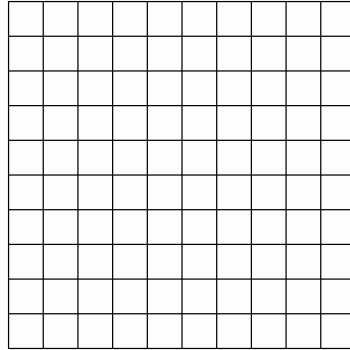
Warm Up 5.3

Sketch a graph to represent each function, then state the domain of the function.

1. $y = 3x - 5$

2. A sequence of terms such that
$f(1) = 8 \, , f(n) = \dfrac{1}{2}f(n-1)$

Determine if the statement is true or false, then justify why (use a COUNTER EXAMPLE if false).

3. All linear functions are increasing.

For the graph below, list all 9 key features. Include both set notation AND interval notation for the domain and range.

4.