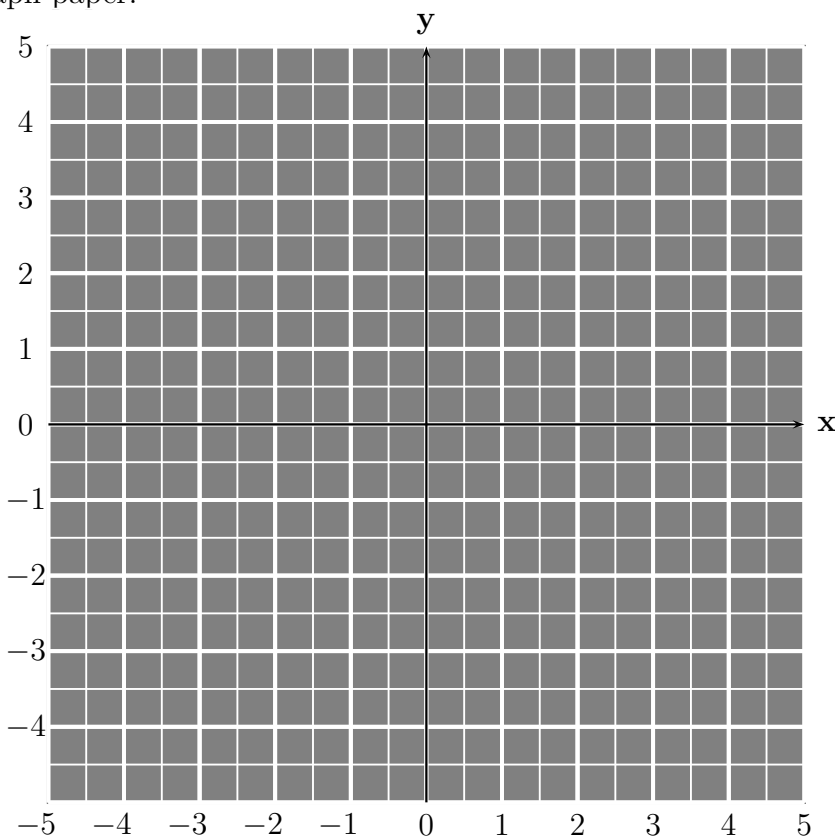Name: _____

Directions: You *must* show all your work in the provided space. Simplify your answers whenever possible. Be certain to indicate your final answer clearly.

1. Consider the equation: $x - y = 3$. Find five solutions of this equation and graph them in the provided graph-paper.

x	y

2. Find the midpoint of the segment connecting points $P = (2, -3)$ and $Q = (-3, 5)$.

3. Complete the following table of solutions of the equation $2x - 5y = 20$

x	y
0	
	0
1	
5	
	-2

4. (a) Give an example of a linear equation in two variables that has empty solution set.

   (b) Give an example of a linear equation in two variables that has infinitely many solutions.

   (c) Can you give an example of a linear equation in two variables that has exactly three solutions? Explain.