Name:_____
Standard Form Investigation

Write an equation for each of the situations below. Be sure to define variables.

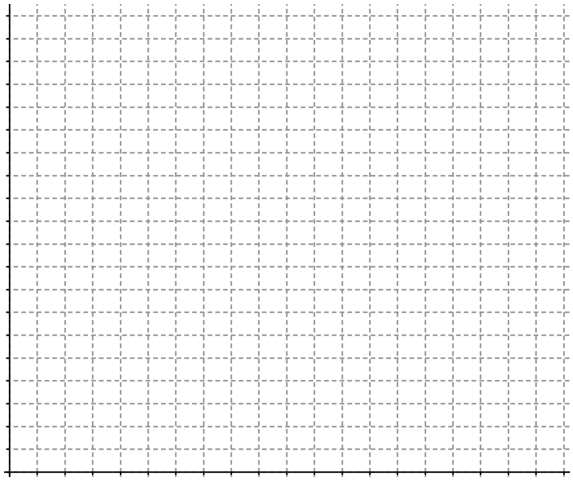
A) Julie is at a bake sale raising money for charity. She sells cakes for $10 and pies for $5. Her goal is to raise $100. Write an equation to represent how many of each item she must sell to meet her goal.

B) Julie is at a bake sale raising money for charity. At the start of the day she already has $20 and she sells her cakes for $10 each. Write an equation to show how much money she raises.

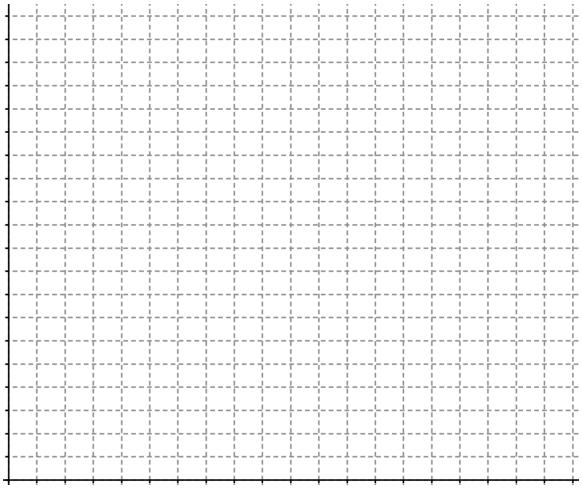
Graph each of the equations below:

Use the table to help you graph equation A.

Cakes	0	3	7	10
Pies				



Use the graph below to graph equation B.



1. What type of function are both of these graphs? Why?

2. Which of the problems is written in a form that we have studied? What do we know about that form in relation to the graph and a story problem?

3. What are the differences between the two types of story problems that led to different types of equations? Use proper math vocabulary when possible.

This new form of a linear function is called **Standard Form**.