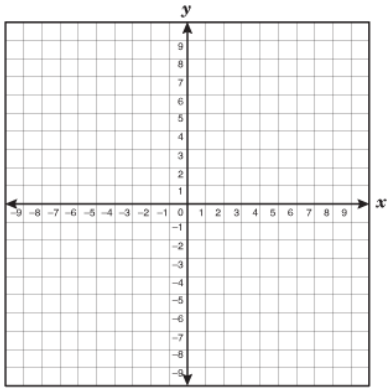
AGS 1 Name: _____ Period: _____ Date: _____

Notes/Assignment 2.7 – Graphing Practice

Graphing from Slope – Intercept Form $y = mx + b$

m is the _____. b is the _____.

$y = 2x - 3$



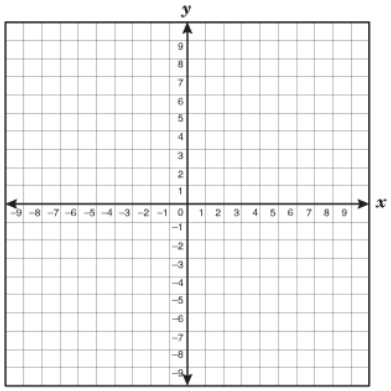
First,

Then,

Graphing from Point – Slope Form $y = m(x - x_1) + y_1$

m is the _____. (x_1, y_1) is _____.

$y = -3(x + 2) + 4$



Option 1:

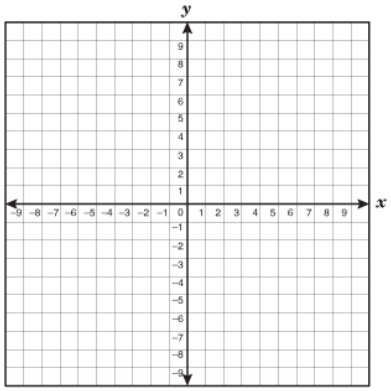
Option 2:

Graphing Exponential Equations $y = b(a)^x$

b is the _____. a is the _____.

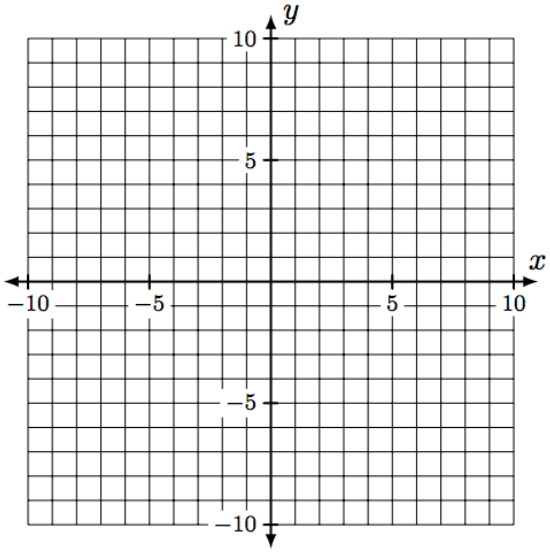
$y = 4\left(\frac{1}{2}\right)^x$

Option 1:

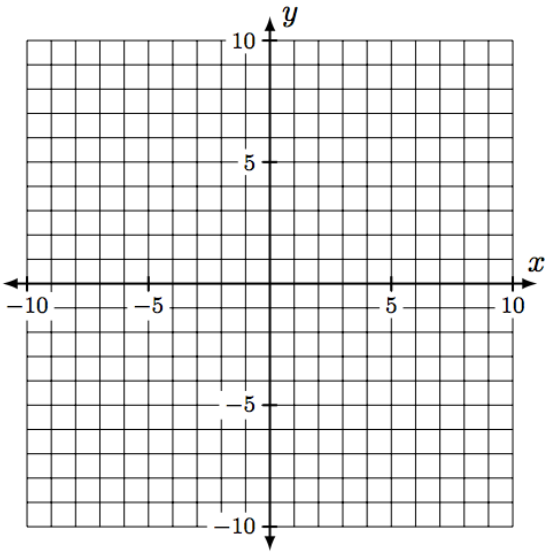


Option 2:

a. $y = 3(2)^x$

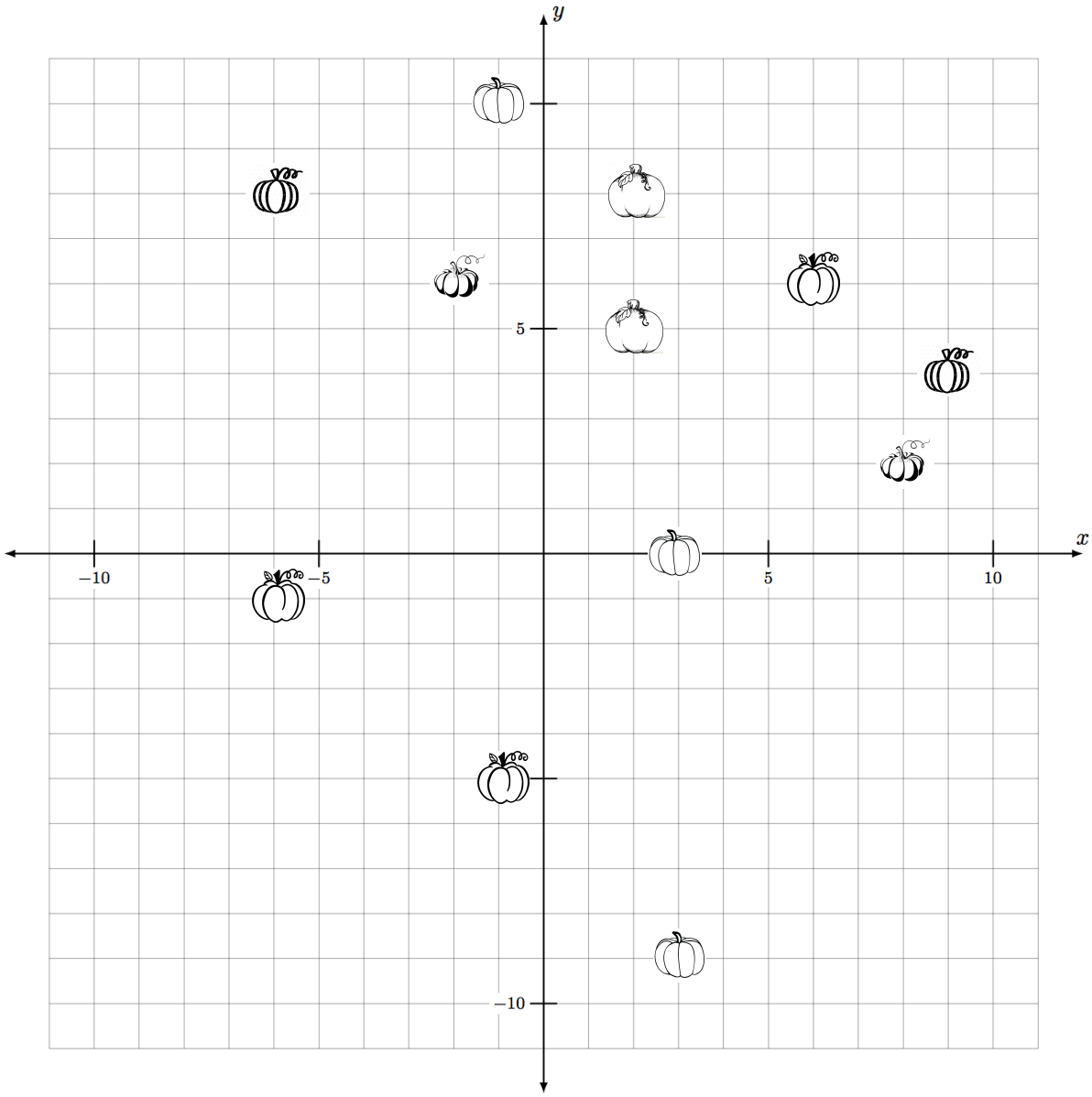


b. $y = 9\left(\frac{1}{3}\right)^x$



Slope – Intercept Form

Graph each equation on the provided graph. Each line will go through two different pumpkins, each pumpkin will have one line passing through it.



c. $y = -\frac{1}{2}x + 6$

d. $y = 2x - 6$

e. $y = -3x$

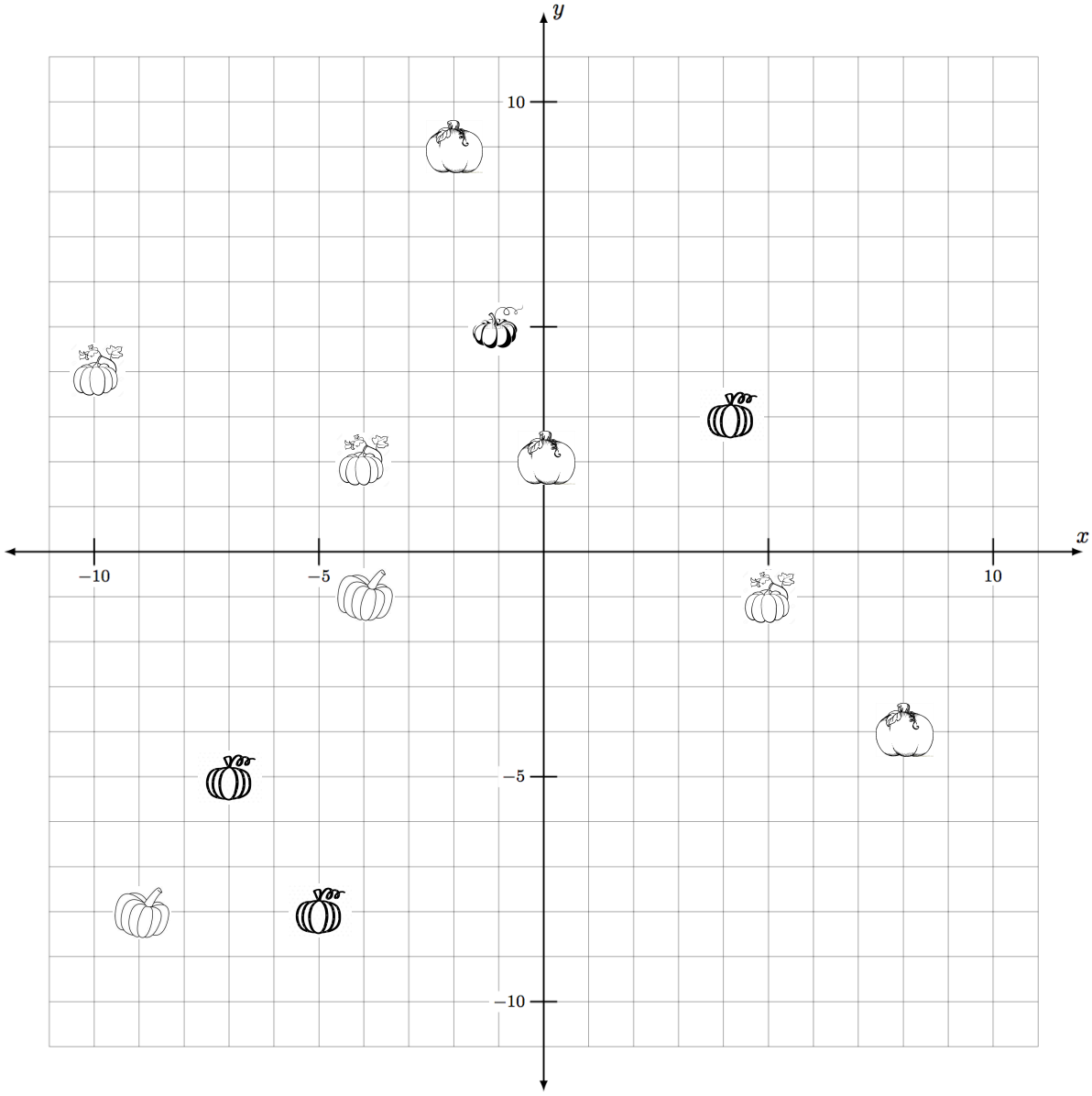
f. $y = \frac{1}{3}x + 1$

g. $x = -1$

h. $y = 8$

Point – Slope Form

Graph each equation on the provided graph. Each line will go through two different pumpkins, each pumpkin will have one line passing through it.



i. $y = 2(x - 1) + 4$

j. $y = \frac{1}{2}(x + 3) - 5$

k. $y = -1(x - 4) + 3$

l. $y = (x + 4) + 2$

m. $y = -\frac{1}{4}(x + 8)$

n. $y = -3(x + 7) - 5$