North Hunterdon High School
Algebra 1B Summer Assignment

o Complete **before** the first day of school.

o Please bring it in on our first day of school.

o You do not have to complete this entire assignment in one sitting. Break it down into 2-3 questions in each sitting if you need to!

o Most importantly, **do not use a calculator** on this assignment! I am interested in seeing what YOU know how to do, not what your calculator can do!

Finally, have a fantastic summer! See you in August!

1. Using the digits 1 to 9, at most one time each, place a digit in each box to make a whole number product.

$$\frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}} = \boxed{}$$

2. In complete sentences, please write which equation does not belong and why.

$y = 4x$	$y = x + 7$
$y = -2x + 4$	$y = 3x - 1$

3. Solve each equation.

a. $1 + p = -8$

b. $\dfrac{x}{3} = -5$

c. $2x + 10 = 6$

d. $s - 1 = 5s + 3s - 8$
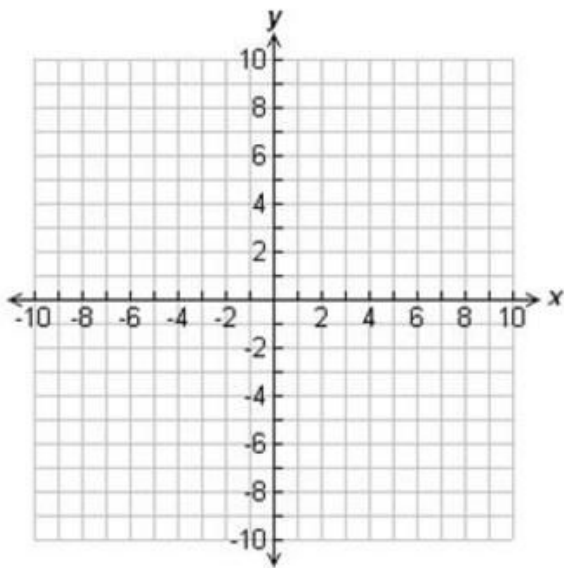
e. $-(7 - 4x) = 9$

f. $3n - 5 = -8(6 + 5n)$

4. Convert the following to slope-intercept form.
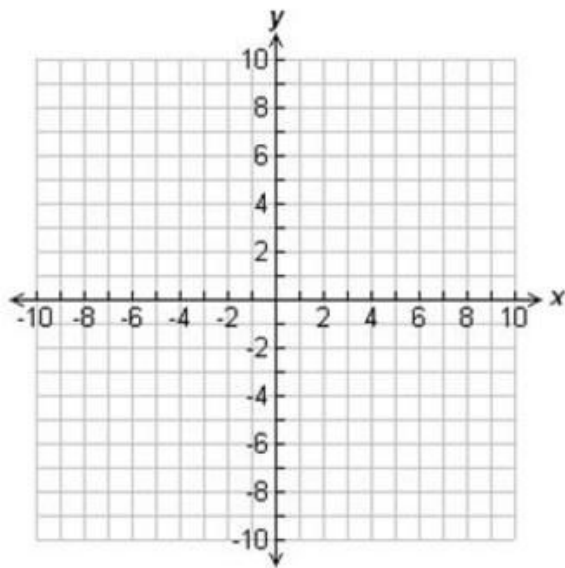
a. $2x - 3y = 12$
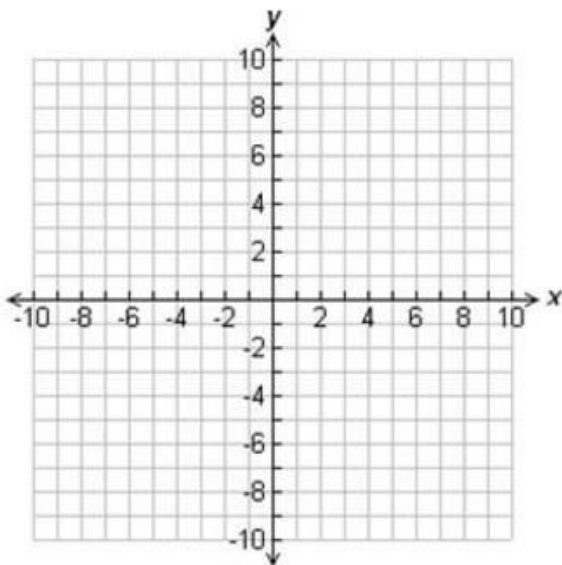
b. $-5x - 7y = 56$
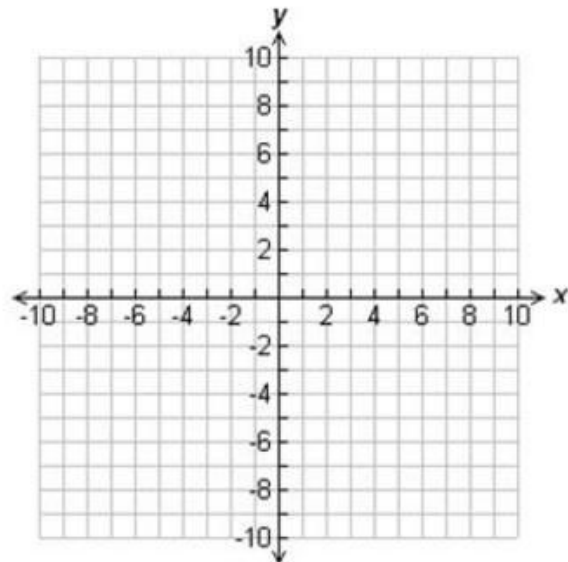
5. Graph the following.
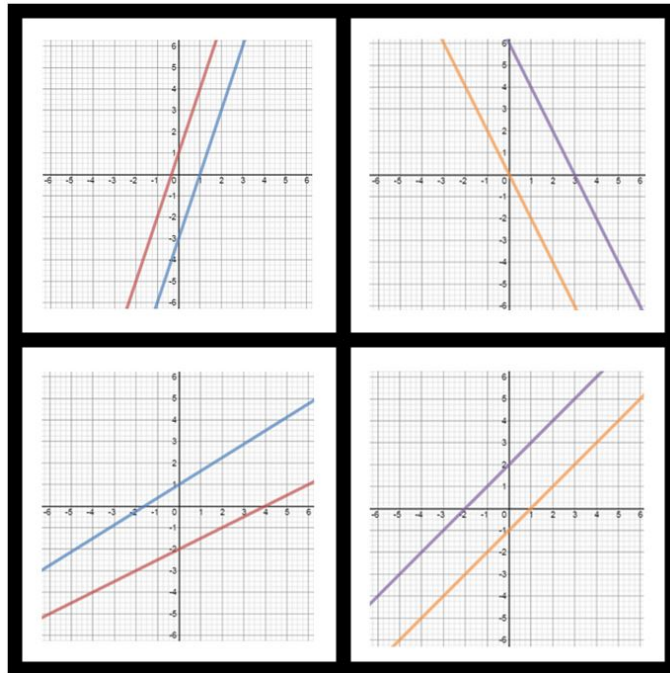
a. $y = -8x - 4$

b. $x = 5$

c. $2x + 5y = 10$

d. $y = -1$

6. Which one does not belong and why?

7. Find the slope of the following lines using the given information.

a. $y = -\dfrac{3}{4}x - 10$

b. the line that passes through the points $(-4, 7)$ and $(8, -2)$