Way Cool Algebra Name _____ Period ____

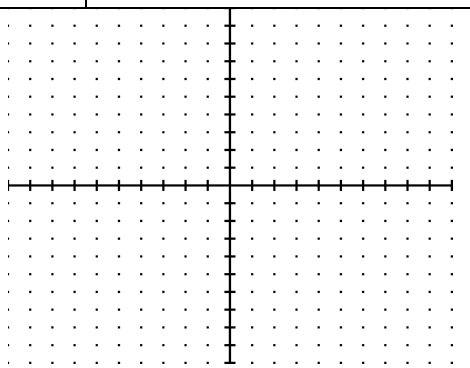
Graphs – Relations **Parallel and Perpendicular** Assign # _____

Graph both lines and determine their relationship. Decide if the lines are Parallel, Perpendicular, or Neither. PLOT AS MANY POINTS AS POSSIBLE.

1

$y = 3x + 4$

$y = 3x - 6$

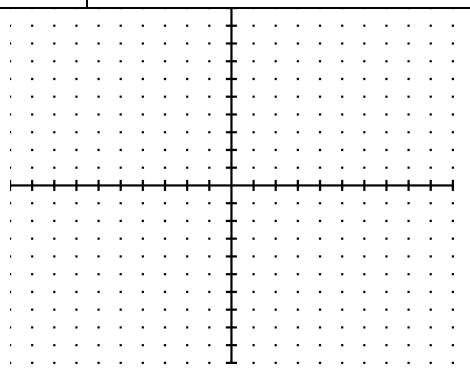


Relationship: _____

2

$y = -4x + 10$

$y = \frac{1}{4}x - 2$

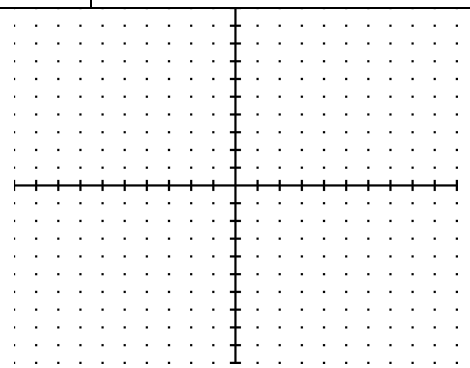


Relationship: _____

3

$y = x - 2$

$y = 6 - x$

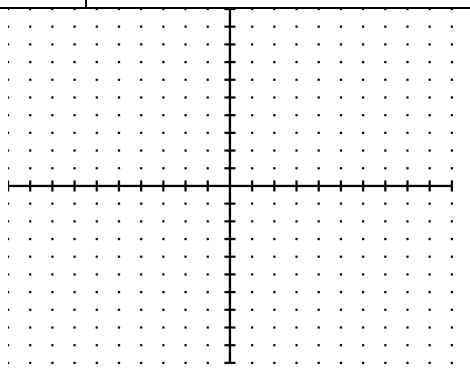


Relationship: _____

4

$y = 3x + 8$

$y = -3x - 7$

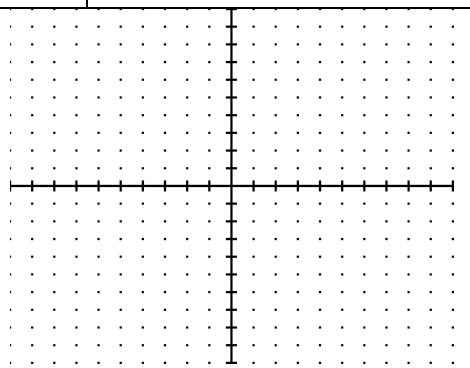


Relationship: _____

5

$y = -\frac{2}{3}x - 1$

$y = -\frac{3}{2}x + 8$

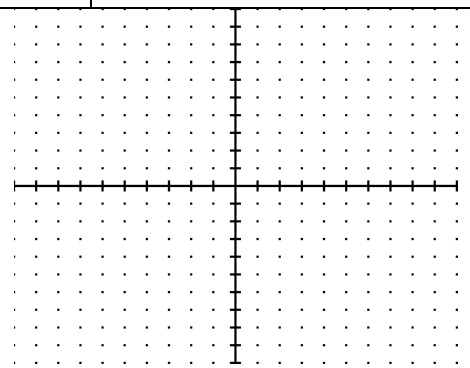


Relationship: _____

6

$y = \frac{2}{5}x + 9$

$y = -\frac{5}{2}x + 1$

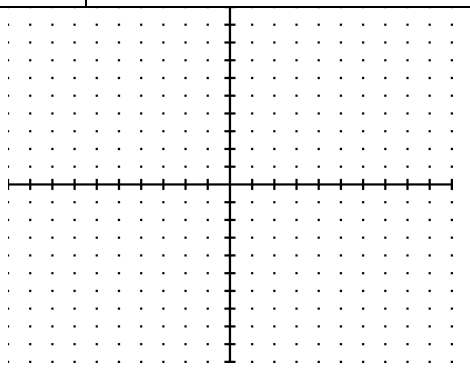


Relationship: _____

7

$y = -\frac{1}{5}x + 5$

$y = -\frac{1}{5}x + 10$



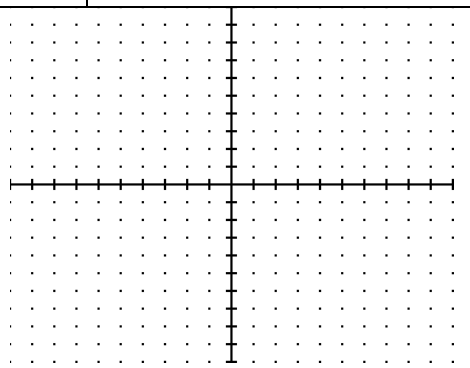
Relationship: _____

8

Put in Slope-Intercept Form on the back of paper

$5x + 6y = 48$

$15x = -9(8 + 2y)$



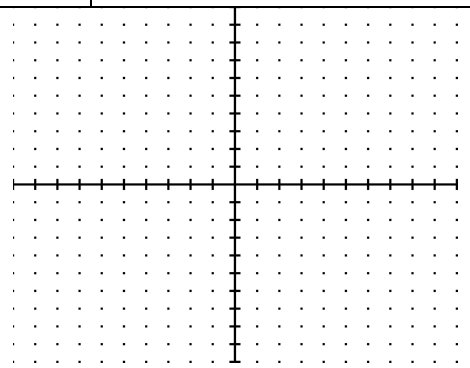
Relationship: _____

9

Put in Slope-Intercept Form on the back of paper

$5x - y = 1$

$x - 5y = -10$



Relationship: _____