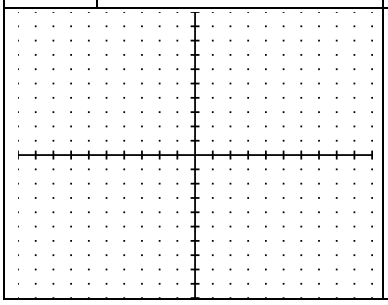
Way Cool Algebra Name _____ Period ____

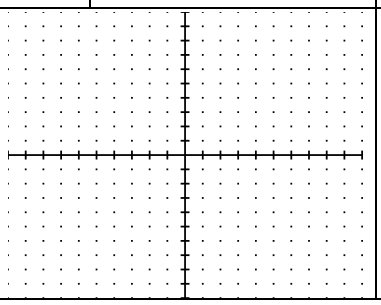
Linear Relations **Parallel & Perpendicular** Assign # _____

Graph two lines for every grid. PLOT AS MANY POINTS AS POSSIBLE.

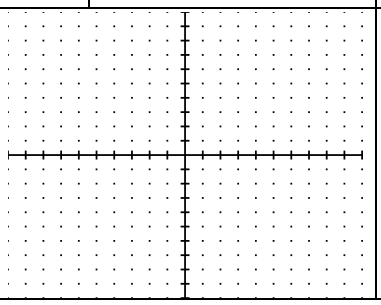
1 $y = -x - 2$, $y = -x + 3$



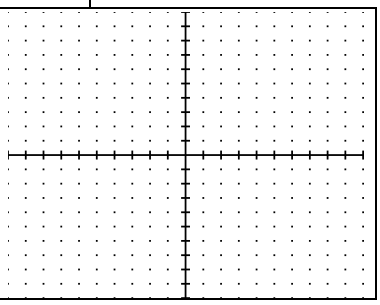
2 $y = x + 3$, $y = -x + 5$



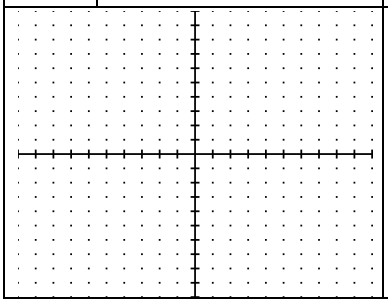
3 $y = 3x$, $y = 3x - 6$



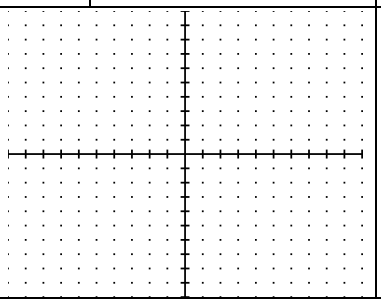
4 $y = 2x + 1$, $y = \frac{1}{2}x + 6$



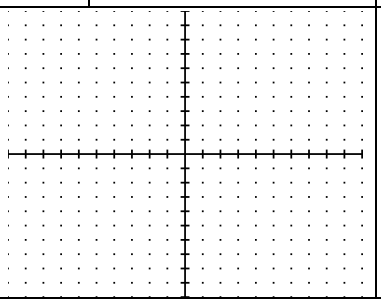
5 $y = \frac{4}{3}x - 1$, $y = \frac{4}{3}x + 10$



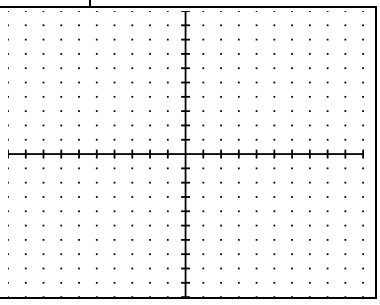
6 $y = \frac{2}{5}x + 7$, $y = -\frac{5}{2}x - 8$



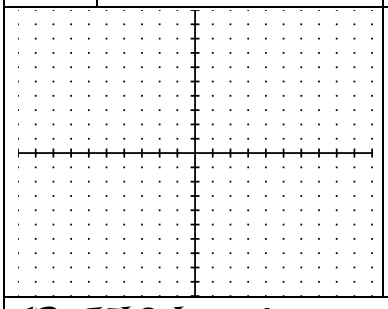
7 $y = -\frac{3}{2}x - 4$, $y = \frac{1}{2}x$



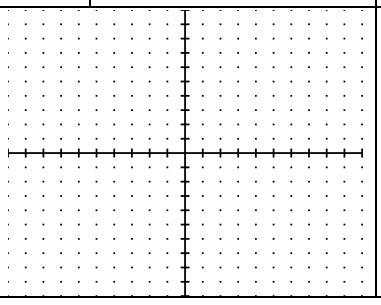
8 $y = -\frac{1}{4}x - 8$, $y = 4x + 8$



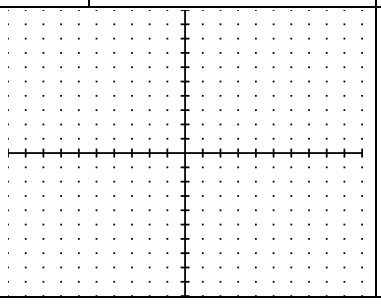
9 $y = \frac{1}{3}x - 4$, $y = 3x + 4$



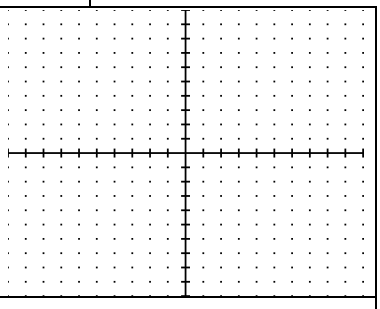
10 $y = -\frac{2}{3}x + 5$, $y = \frac{3}{2}x - 8$



11 $y = -\frac{1}{5}x + 6$, $y = -\frac{1}{5}x - 3$



12 $y = -\frac{3}{4}x + 7$, $y = \frac{4}{3}x + 1$



13. Which graphs contain lines that are **PARALLEL**? What are **PARALLEL** lines?

14. Which graphs contain lines that are **PERPENDICULAR**? What are **PERPENDICULAR** lines?

15. Which graphs contain lines that are <u>NOT</u> **PARALLEL** or **PERPENDICULAR**?

16. Carefully examine the set of equations for each of your graphs. What is it about the <u>EQUATIONS</u> that make

a) the lines **PARALLEL** to each other?

b) the lines **PERPENDICULAR** to each other?

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