

Name _____ Date _____

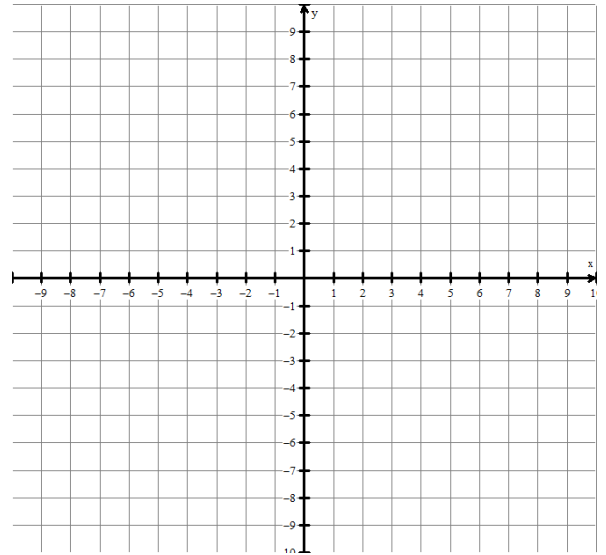
CW 41 Writing Equations of Parallel and Perpendicular Lines

Write each linear equation in slope-intercept form. Then graph the three equations on the same set of axes. Which two lines appear parallel? What information is needed to determine if lines are parallel?

1. $3x + 4y = 6$

$3x + 4y = 12$

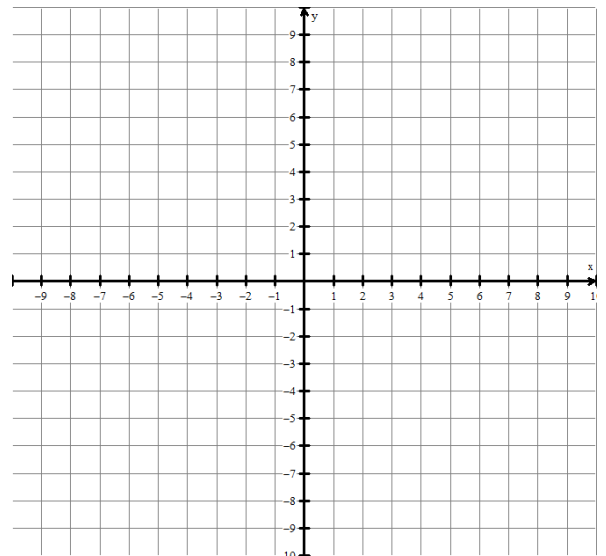
$4x + 3y = 12$



2. $5x + 2y = 6$

$2x + y = 3$

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



Parallel Lines and Slopes

- Two lines in the same plane that never intersect are **parallel lines**. Two distinct nonvertical lines are parallel if and only if they have _____
- All vertical lines are parallel.

