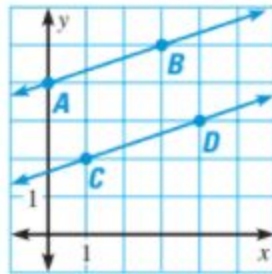


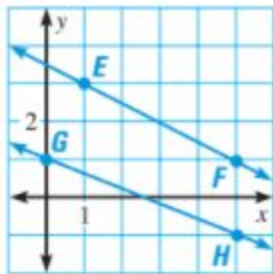
Parallel and Perpendicular Lines in Coordinate Plane

1. Find the slope of each line. Which lines are parallel?

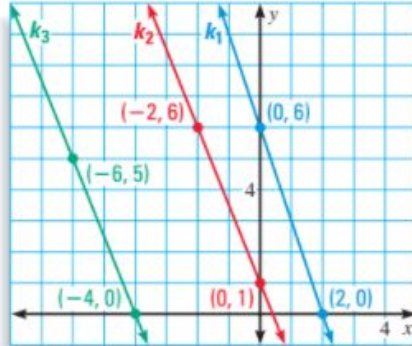
a.



b.



c.



2. Find the slopes of \overleftrightarrow{AB} , \overleftrightarrow{CD} , and \overleftrightarrow{EF} . Determine which lines are parallel, if any.

$A(0, -6) B(4, -4)$

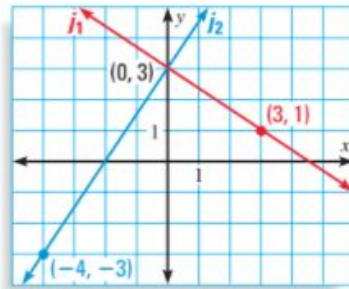
$C(0, 2) D(2, 3)$

$E(0, -4) F(1, -7)$

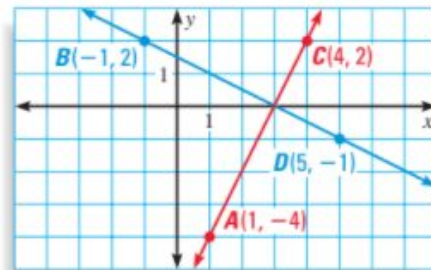
Parallel and Perpendicular Lines in Coordinate Plane

3. Find the slope of each line. Which lines are parallel?

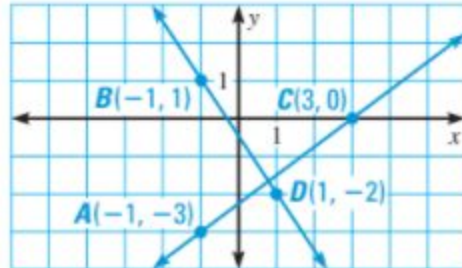
a.



b.



c.



4. Determine whether the lines are parallel, perpendicular, or neither:

$$3x - 2y = 1$$

$$6x + 9y = 3$$

Parallel and Perpendicular Lines in Coordinate Plane

5. Solve the following systems using any method:

a. $2y - 5x = -1$

$$x = 2y + 5$$

b. $8x + y = -16$

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