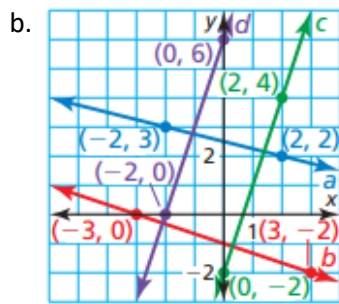
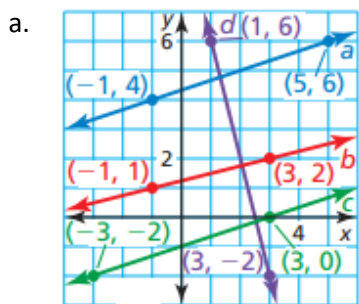


3.5 Equations of Parallel & Perpendicular Lines DAY ONE CYU

Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Parallel slopes	1	2	3
Perpendicular slopes	1	2	4
Counting slopes	1	2	
Using Slope Formula	2	2	
Writing Equations			3, 4
Graphing Equations		3, 4	

1. Determine which of the lines are parallel and which of the lines are perpendicular.



2. Determine whether the lines through the given points are parallel, perpendicular, or neither. Justify your answer.

a) Line 1: (1, 0) & (7, 4)
Line 2: (7, 0) & (3, 6)

b) Line 1: (-3, 1) & (-7, -2)
Line 2: (2, -1) & (8, 4)

c) Line 1: (-9, 3) & (-5, 7)
Line 2: (-11, 6) & (-7, 2)

d) Line 1: (10, 5) & (-8, 9)
Line 2: (2, -4) & (11, -6)

3. Write an equation of the line passing through point P that is parallel to the given line. Graph the equations of the lines to check that they are parallel.

a. $P(0, -1), y = -2x + 3$

c. $P(-2, 6), x = -5$

b. $P(3, 8), y = \frac{1}{5}(x + 4)$

d. $P(4, 0), -x + 2y = 12$

4. Write an equation of the line passing through point P that is perpendicular to the given line. Graph the equations of the lines to check that they are perpendicular.

a. $P(0, 0), y = -9x - 1$

c. $P(2, 3) y - 4 = -2(x + 3)$

b. $P(4, -6), y = -3$

d. $P(-8, 0), 3x - 5y = 6$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

