

Name

4.5

Write Equations of Parallel

Alg I

and Perpendicular Lines

I can write equations of parallel and perpendicular lines.

Converse: Switches the hypothesis and conclusion of an if-then statement.

Example 1:

1) $(-2, 11)$ $y = -x + 5$

$m = -1$

$y = mx + b$

$11 = -1(-2) + b$

$11 = 2 + b$

$-2 \quad -2$

$b = 9$

$y = -x + 9$

Ch. 4 Quiz

Ch. 3/4

Test

Perpendicular: Two lines are perpendicular if they intersect to form a right angle.

Example: Horizontal and Vertical lines

Example 2:

a) $2x + 6y = -3$

$\frac{6y = -2x - 3}{6 \quad 6 \quad 6}$

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

b) $y = 3x - 8$

c) $-1.5y + 4.5x = 6$

$\frac{-1.5y = -4.5x + 6}{-1.5 \quad -1.5 \quad -1.5}$
 $y = 3x - 4$

Parallel: $B + C$

Perpendicular: $A + B$ and $A + C$