

Geometry #10 Opener

Name:

$$m = \frac{7-11}{3-(-9)} = \frac{-4}{12} = -\frac{1}{3}$$

1. Line p : $3x - 5y = 20$

$$\frac{-5y}{-5} = \frac{-3x + 20}{-5}$$

$$y = \frac{3}{5}x - 4$$

a) What is the slope of line p ? $m = \frac{3}{5}$

b) If line q is **parallel** to line p , what is the slope of line q ? $m = \frac{3}{5}$

c) If line r is **perpendicular** to line p , what is the slope of line r ? $-\frac{5}{3}$

2. Find the equation of the line passes through $(-9, 11)$ and $(3, 7)$.

$$y - y_1 = m(x - x_1)$$

$$y - 7 = -\frac{1}{3}(x - 3)$$

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

Slope: $-\frac{1}{3}$ $y - 11 = -\frac{1}{3}(x + 9)$

Point-Slope: $y - 7 = -\frac{1}{3}(x - 3)$

Slope-Intercept: $y = -\frac{1}{3}x + 8$

OPPOSITE Reciprocals

Correct

3. Solve the equation:

a) $\frac{5(n-4)}{n} = 3$

* Hint: Multiply both sides by n first.

$$5n - 20 = 3n$$

$$-20 = -2n$$

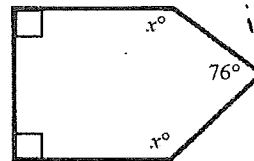
$$n = 10$$

b) $\frac{280}{n} = 20$

$$280 = 20n$$

$$14 = n$$

4. Find the value of x .



Sum of int \angle 's = $(5-2) \cdot 180 = 540$

$$90 + 90 + 76 + 2x = 540$$

$$256 + 2x = 540$$

$$2x = 284$$

$$x = 142$$

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Slope:

Point-Slope:

Slope-Intercept:

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