

Honors Algebra 2

September 8th-11th

Writing Equations of Line

Slope Intercept Form:

$$y = mx + b$$

Point Slope Form:

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

Standard Form:

$$Ax + By = C$$

Parallel Lines: the slopes of two lines are equal**Perpendicular Lines:** the slopes of two lines are negative reciprocals of each otherEx. Find the equation of the line parallel to $y = \underline{3x - 5}$ through the point $\underline{(4, -9)}$

$$\begin{aligned}
 & m = 3 \\
 & y + 9 = 3(x - 4) \quad \text{Pt + slope} \\
 & y + 9 = 3x - 12 \rightarrow y = 3x - 21 \quad \text{Slope Int} \\
 & 3x - y = 21 \quad \text{Standard}
 \end{aligned}$$

Ex. Find the equation of the line perpendicular to $y = \underline{-5x + 7}$ through the point $\underline{(-2, 4)}$

$$\begin{aligned}
 & m = \frac{1}{5} \\
 & (-2, 4) \quad y - 4 = \frac{1}{5}(x + 2) \quad \text{Pt + slope} \\
 & y - 4 = \frac{1}{5}x + \frac{2}{5} \\
 & y = \frac{1}{5}x + \frac{22}{5} \quad \text{Slope Int} \\
 & -5\left(-\frac{1}{5}x + y = \frac{22}{5}\right) \\
 & x - 5y = -22 \quad \text{Standard Form}
 \end{aligned}$$

Algebra Honors Study Guide

Michael D. Steele, Joleigh Honey

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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web draw the block diagram of an optical fibre communication system and explain function of each block advertisement solution the optical fiber consists of three main elements 1 transmitter an electric signal is applied to the optical transmitter the optical transmitter consists of driver circuit light source and fiber flylead

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