• Slope
$$M = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$M = \frac{\text{rise}}{\text{run}} = \frac{y_z - y_1}{x_z - x_1}$$

$$M = \frac{\text{rise}}{\text{con}} = \frac{y_z - y_1}{x_2 - x_1}$$

$$\frac{\text{con}}{\text{slope}} = \frac{y_z - y_1}{x_2 - x_1}$$

parallel lines have the same slope y= b perpendicular lines have opposite reciprocal slopes

Two Points
(-4,3) and (1,5)
M=
$$\frac{y_2-y_1}{x_2-x_1}$$

Equation

$$3y + x = 6$$

(some for y)

 $y = mx + 6$

· Intercepts

· Slope-Intercept Equations (y=mx+b) slope y-intercept T. into the possition of a line...

To write the equation of a line... slope y-intercept

() Find slope

· formula

· rise

· identify m

() Find y-intercept

· plug in a point for x and y to solve for b