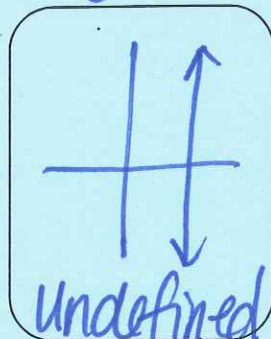
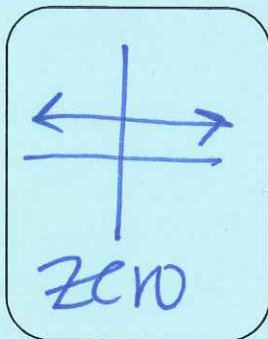
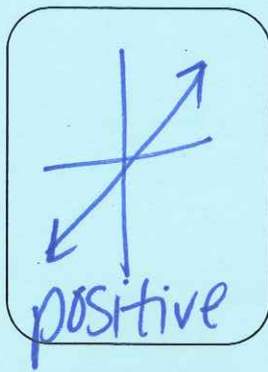


Slope

Slope
Intercept
Form

Standard
Form

One
Variable



① (5, -3) and ② (-3, 7)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7 - (-3)}{-3 - 5} = \frac{10}{-8}$$

$$m = -\frac{5}{4}$$

Parallel:

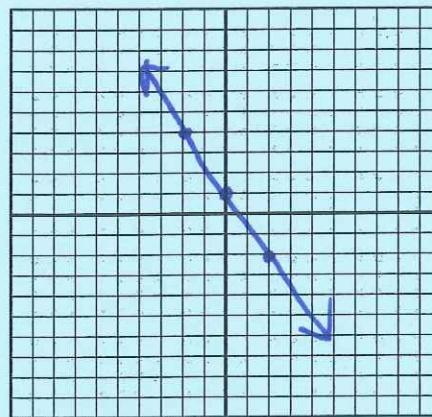
same slope $m_{||} = -5/4$

Perpendicular:

opp. Reciprocal $m_{\perp} = 4/5$
Slope

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

$b = 1$
 $m = -\frac{3}{2}$



$$y = mx + b$$

↑ slope ↑ y-int
 $\frac{\Delta y}{\Delta x}$ (0, b)

- ① "B"egin at b
- ② count slope

H Horizontal

O $m = \text{zero}$ $y = 2$

Y $y = \#$

V Vertical

U $m = \text{und.}$ $x = 2$

X $x = \#$

$$2x + 3y = 12$$



$$ax + by = c$$

① X-int (x, 0)

$$2x + 3(0) = 12$$

$$2x = 12 \quad x = 6$$

② y-int (0, y)

$$2(0) + 3y = 12$$

$$3y = 12 \quad y = 4$$