

## mobius

## **Slope - Find Perpendicular - Fraction** Slope to Slope Y Intercept Form



$$egin{aligned} egin{aligned} \mathsf{A} \ y = -rac{1}{2}x + 2 \end{aligned} egin{aligned} \mathsf{B} \ y = -1x + 2 \end{aligned} egin{aligned} \mathbf{2} \end{aligned}$$

What line equation would have a slope that is PERPENDICULAR to this slope?

$$egin{aligned} egin{aligned} \mathsf{A} \ y = -5x + 1 \ y = rac{1}{5}x + 1 \end{aligned}$$

$$m = -1$$

$$y = 1x + 2$$

$$m=-rac{1}{5}$$

$$egin{array}{c} \mathsf{c} \ y = rac{\mathsf{5}}{2}x + \mathsf{1} \ y = \mathsf{5}x + \mathsf{1} \end{array}$$

$$\begin{vmatrix} \mathsf{A} & \mathsf{y} & \mathsf{A} & \mathsf{y} & \mathsf{A} & \mathsf{y} & \mathsf{y}$$

$$\begin{vmatrix} A \\ y = -\frac{3}{2}x + 3 \end{vmatrix} y = \frac{1}{3}x + 3$$

$$m=-rac{1}{4}$$

$$egin{array}{c} 1 \\ y = rac{1}{4}x + 2 \\ y = -4x + 2 \\ m \end{array} = egin{array}{c} 1 \\ m \end{array}$$

$$m = -3$$

$$-\mathbf{3}\begin{vmatrix} c \\ y = -\frac{1}{3}x + 3 \end{vmatrix} y = 3x + 3$$

$$\begin{vmatrix} A \\ y = -\frac{1}{4}x + 4 \end{vmatrix} y = 4x + 4 \end{vmatrix}$$
 6

$$\begin{vmatrix} \mathsf{A} \ y = -1x + 3 \end{vmatrix} y = rac{1}{2}x + 3$$

$$m=\frac{1}{2}$$

$$y = -4x + 4$$
  $y = -\frac{4}{2}x + 4$   $y = -\frac{4}{2}x + 4$ 

$$m=1$$

$$--$$
 1  $y = 1x + 3$ 

$$egin{aligned} egin{aligned} \mathsf{A} \ y = \mathsf{5}x + \mathsf{1} \end{aligned} y = rac{\mathsf{1}}{\mathsf{5}}x + \mathsf{1} \end{aligned}$$

$$y = -\frac{1}{4}x + 2$$
  $y = -\frac{4}{2}x + 2$ 

$$m = -5$$

$$-\mathbf{5}^{\begin{vmatrix} \mathtt{c} \ y = -rac{1}{5}x + 1 \end{vmatrix} y = -rac{5}{2}x + 1}$$
  $m$ 

$$m = -4$$

$$y = 4x + 2$$
  $y = \frac{1}{4}x + 2$