

Ex: Line GOES THROUGH 
$$P(15,20)$$
 AND PARALLEL TO  $\gamma = \frac{4}{5} \times -5$ .

$$y = \frac{4}{5}x + b$$

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$$20 = \frac{4}{5}(15) + b$$

$$20 = 12 + b$$

$$= \frac{12}{12} + \frac{1}{12}$$

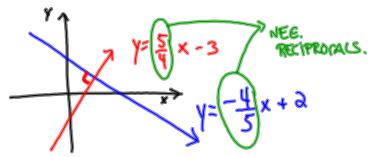
$$\sqrt[3]{\gamma = \frac{4}{5}x + 8}$$

## PERPENDICULAR (1) LINES.

SLOPES ARE NEGATIVE RECIPROPALS.

SLOPE = 
$$\frac{a}{b} \rightarrow \frac{-b}{a}$$

SLOPE =  $\frac{a}{b} \rightarrow \frac{-b}{a}$ Switch the numerator & Denominator, & Change the Sign of the Denominator.



Ex: Line GOES THROUGH P(20, 28) AND is **REPRENDICULAR** TO  $y = -5 \times -10$ .

1 PERPENDICULAR > NEG. RECIPROCAL SCOPES. ( 3 - 5)

$$\begin{array}{ccc}
-5 & -4 & 4 \\
75 & -5 & 5
\end{array}$$

② 
$$y=a.x+b$$
  
 $y=\frac{4}{5}x+b$   
 $28=\frac{4}{5}.20+b$   
 $28=\frac{1}{5}.6+b$   
 $16=\frac{1}{6}$ 

$$\left(y = \frac{4}{5} \times + 12\right)$$