Consistent and Independent
"One Solution"

$y = mx + b$ (different slopes)

$y = \frac{1}{4}x - 7$

$y = \frac{1}{3}x - 4$

Consistent and Dependent
"Many Solutions"
One Solution on top of the other

$y = mx + b$

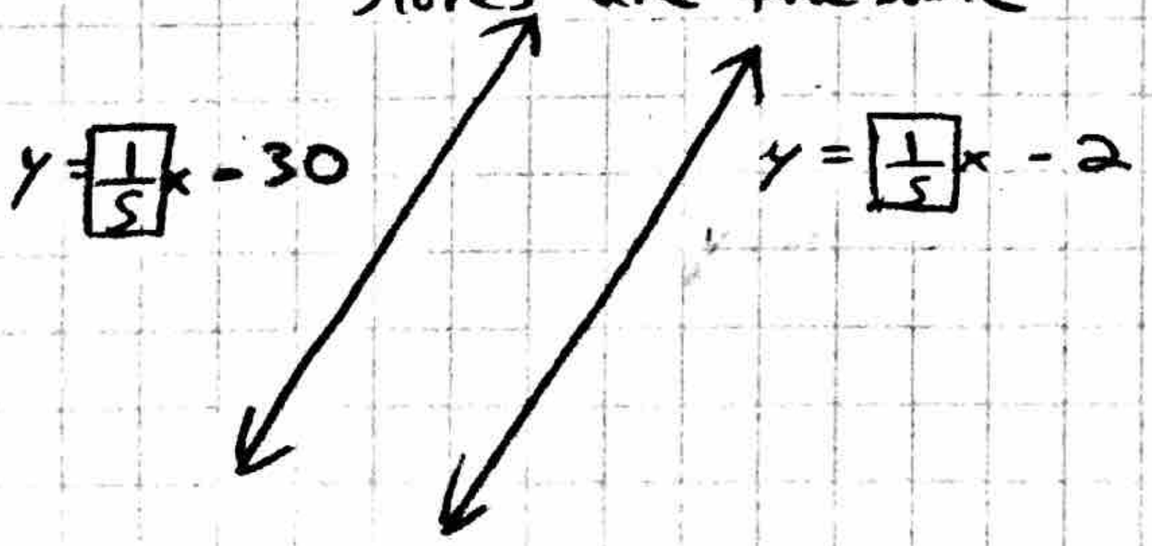
Slopes and y-intercept are the same

$y = -4x + 9$

$y = -4x + 9$

Inconsistent
"No Solutions"
$y = mx + b$

Slopes are the same



$y = \frac{1}{5}x - 30$

$y = \frac{1}{5}x - 2$