

Lesson 3-5 \rightarrow $y = mx + b$ Word Problems

$$y = mx + b$$

Just stays
"y"

Slope

Rise
Run

change in y
change in x

Rate of Change

Just stays
"x"

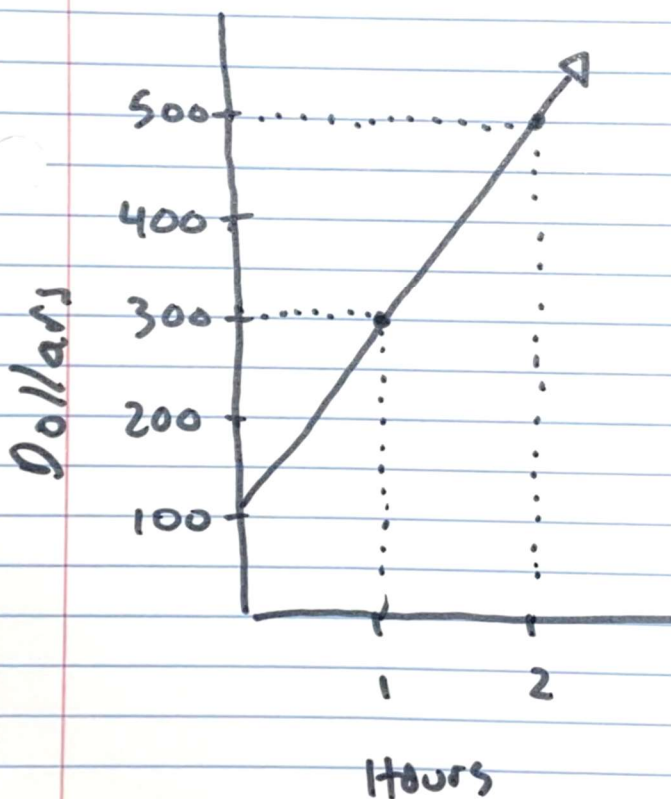
y-intercept

initial value

what y is
when x is
zero

A laser tag room can be rented for parties for \$200 per hour plus a \$100 equipment fee.

Model this with $y = mx + b$ where "y" is total cost and "x" is hours



Hours x	Dollars y
0	100
1	300
2	500
3	700

$$y = 200x + 100$$