

$(3,4)$ $(5,10)$

$\frac{4}{3} = 1.3$

$\frac{6}{2} = 3$

x	3	5	7	9	11
y	4	10	16	22	28

$\frac{y_2 - y_1}{x_2 - x_1}$


+2 +2 +2 +2

+6 +4 +6 +6

x	-10	0	10	20	30
y	1	6	11	16	21


Mary plans on saving \$10 a week from her paycheck.

$y = 10x + 0$



Jack has \$300 in his bank account. He plans on saving \$8 a week from his paycheck.

$y = 8x + 300$



y-intercept Originally

What words can we use to describe a beginning?

Start Starting Value

Begin "at first" Initial

once upon a time....

Slope-Intercept Form

$y = mx + b$


↑ ↑

slope y-intercept

Visa charges an annual fee of \$85 when you sign up to use their card. They will also charge you \$10 every month that you leave a balance on the card.


$y = 85 + 10x$

$y = 10x + 85$



Capital One charges a yearly fee of \$50 and \$15 every month that the balance is unpaid.

$y = 15x + 50$



Ticketmaster charges a service fee of \$8.99 when purchasing tickets. Coldplay is coming to town and you and your friends want to buy tickets. Tickets are \$54.49 a piece.



$$y = 54.49x + 8.99$$

Apple is launching a new music plan. They are going to charge customers \$9.99 plus \$1.29 per song



$$y = 1.29x + 9.99$$