

$$\text{New} = \$1,200 \quad 2 \text{ yrs} = \$500$$

1) $x = \#$ of years computer is owned.
 $y =$ value of computer

$$2A) (0, 1200) \text{ AND } (2, 500) \quad m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{500 - 1200}{2 - 0} = \frac{-700}{2} = -350$$

$$m = -350$$

$$2B) \quad y = -350x + b$$

$$1200 = -350(0) + b$$

$$1200 = b$$

$$y = -350x + 1200$$



3) 4 years $y = -350(4) + 1200$
 $y = -1400 + 1200$
 $y = -200$

6 years $y = -350(6) + 1200$
 $y = -2100 + 1200$
 $y = -900$

Verify (0, 1200) (2, 500)

$$y = -350x + 1200$$

$$1200 = -350(\cancel{0}) + 1200$$

$$1200 = 1200 \checkmark$$

4) NO can't have negative years
or value in real world.