

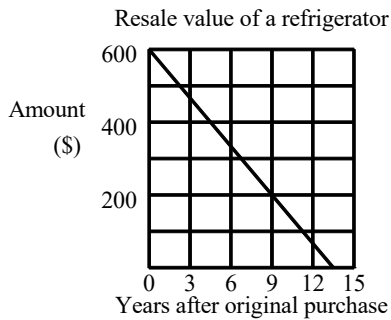
NAME: \_\_\_\_\_

1. This table gives data from a plant growth experiment.

| Time (weeks) | Height (cm) |
|--------------|-------------|
| 3            | 4.6         |
| 4            | 5.8         |
| 7            | 9.4         |

Graph this data. Connect the points. Use the slope of the line to find the rate of growth of the plant.

2. Find the rate of change for the data graphed on the line.



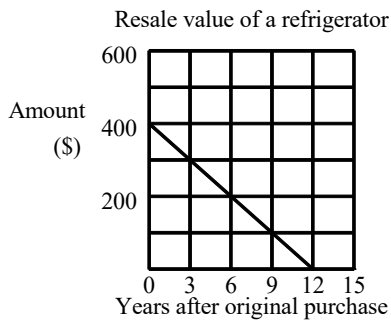
[A]  $-\frac{400}{9}$ , value drops \$400 every 9 yrs

[B]  $-\frac{40}{1}$ , value drops \$360 every 9 yrs

[C]  $-\frac{40}{3}$ , value drops \$120 every 9 yrs

[D]  $-\frac{400}{3}$ , value drops \$1200 every 9 yrs

3. Find the rate of change for the data graphed on the line.



[A]  $-\frac{30}{1}$ , value drops \$270 every 9 yrs

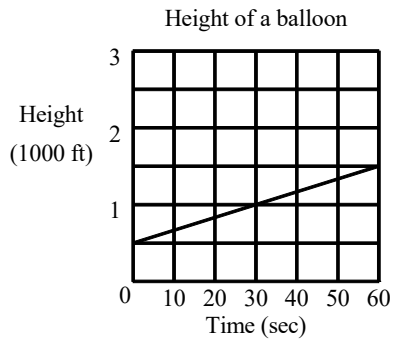
[B]  $-\frac{100}{1}$ , value drops \$900 every 9 yrs

[C]  $-\frac{100}{3}$ , value drops \$300 every 9 yrs

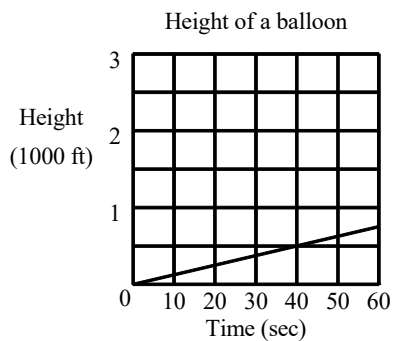
[D]  $-\frac{10}{1}$ , value drops \$90 every 9 yrs

NAME: \_\_\_\_\_

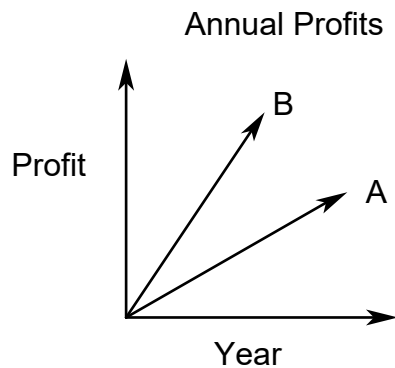
4. Find the rate of change for the data graphed on the line.



5. Find the rate of change for the data graphed on the line.



6. Compare the quantities in Column A and Column B.



Column A

Column B

the rate of change for A

the rate of change for B

[A] The quantity in Column A is greater.

[B] The quantity in Column B is greater.

[C] The quantities are equal.

[D] The relationship cannot be determined from the information given.

Check students' graphs. Rate of growth: 1.2

[1] cm per week \_\_\_\_\_

[2] A \_\_\_\_\_

[3] C \_\_\_\_\_

$\frac{50}{3}$ , the balloon ascends 1000 ft every 60

[4] seconds. \_\_\_\_\_

$\frac{25}{2}$ , the balloon ascends 1000 ft every 80

[5] seconds. \_\_\_\_\_

[6] B \_\_\_\_\_