## SLOPE AS A RATE OF CHANGE



SLOPE measures the $\qquad$ of a line.

It is the rate of $\qquad$ change to $\qquad$ change.

It is the rate of change of $\qquad$ with respect to $\qquad$ .

$$
\text { SLOPE }=\frac{\text { change in } y}{\text { change in } x} \text { or } \frac{\Delta y}{\Delta x} \text { or } \frac{\text { rise } \downarrow}{\text { run } \longleftrightarrow}
$$

## There are four types of slope:

Does the graph increase or decrease?



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Does the graph increase or decrease?

Find the slope of each line shown.

2. $\qquad$

3.

4. $\qquad$


What is the rate of change of y with respect to x for each graph shown below?

A. 2
B. -2
C. $-\frac{1}{2}$
D. $\frac{1}{2}$
6. $\qquad$

A. $-\frac{3}{2}$
B. $\frac{3}{2}$
C. $-\frac{2}{3}$
D. $\frac{2}{3}$


Which of the following statements about the slope of the graph is false?
A. The slope is positive because the amount of money the worker earns is increasing.
B. The slope represents the change in amount earned with respect to time worked.
C. The worker earns $\$ 4$ in 5 hours.
D. The worker earns $\$ 160$ in 20 hours.

