

## Rate of Change

- Rate of change compares the amount of change in a \_\_\_\_\_ variable to the amount of change in an \_\_\_\_\_ variable.

**Step 2:** Find the rates of change.

rate of change = \_\_\_\_\_

**Example:** The table shows the cost of mailing a 1-ounce letter in different years. Find the rate of change in cost for each time interval. During which time interval did the cost increase at the greatest rate?

Year	1985	1988	1990	1991	2004
Cost (¢)	22	25	25	29	37

**Step 1:** Identify the independent and dependent variables.

*dependent:* \_\_\_\_\_

*independent:* \_\_\_\_\_

### Finding Slope from a Table

x	2	2	2	2
y	0	1	3	5

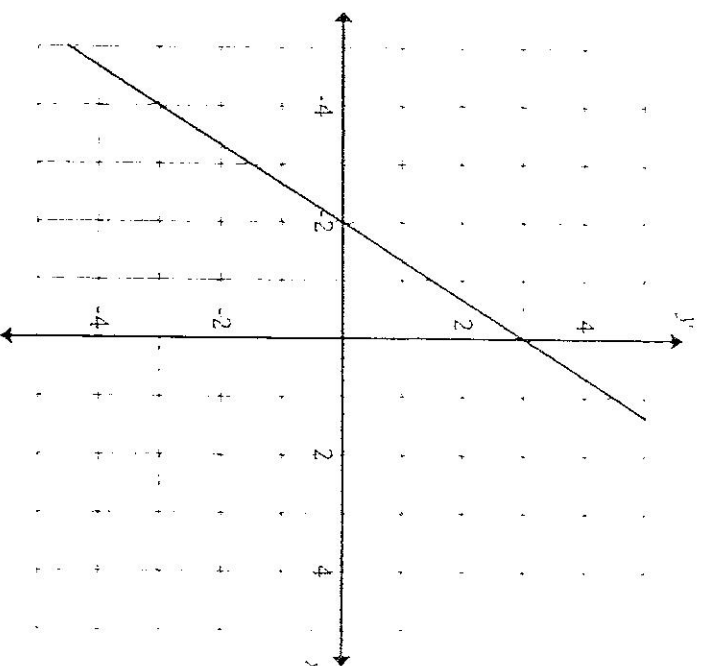
Step 1: Choose any two points from the table.

Step 2: Use the slope formula.

### Finding Slope on a Graph:

Step 1: Find two points on the line.

Step 2: Count the rise and the run from one point to the other.



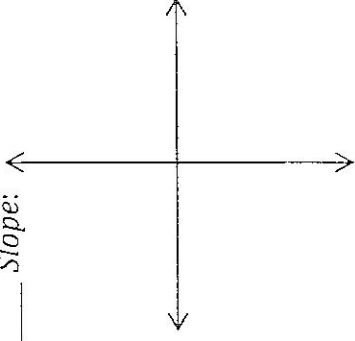
Step 3: Make a fraction.

Step 4: Reduce the fraction if necessary.

## Slope Formula

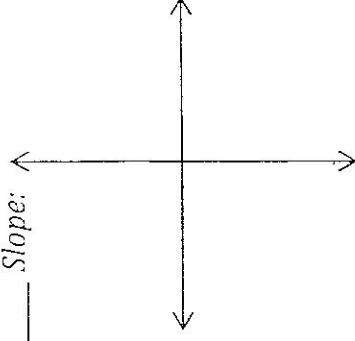
## Types of Slopes

\_\_\_\_\_ Slope:



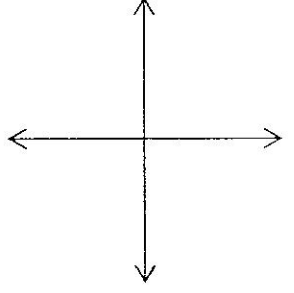
**Step 1:** Label your points

\_\_\_\_\_ Slope:



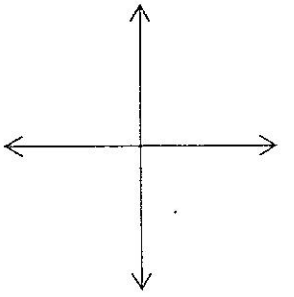
**Step 2:** Plug points into formula.

\_\_\_\_\_ Slope:



**Step 3:** Solve.

\_\_\_\_\_ Slope:



**Step 4:** Reduce if necessary.