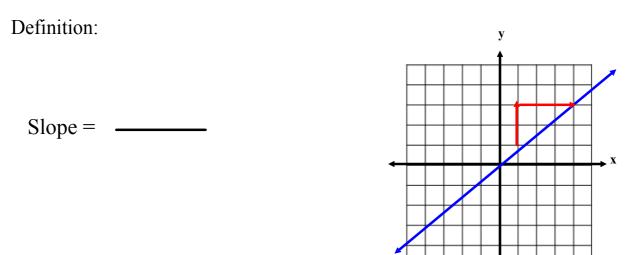
Alg 1

## **3-3 Slope**

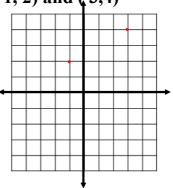
# What is slope?



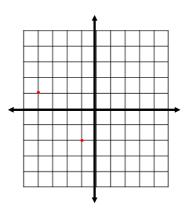


#### **Examples**

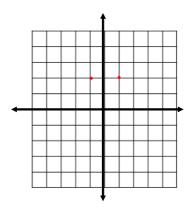
1. Find the slope of a line that passes through (-1, 2) and (3,4)



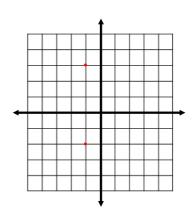
2. Find the slope of a line that passes through (-1, -2) and (-4,1)



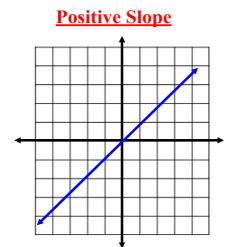
3. Find the slope of a line that passes through (1, 2) and (-1,2)



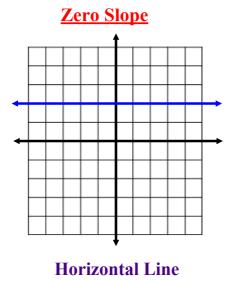
4. Find the slope of a line that passes through (1, -2) and (1,3)



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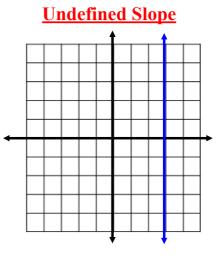


Rising from Left to Right



Negative Slope

Falling from Left to Right

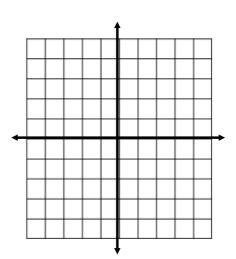


**Vertical Line** 

#### **Example: Find Coordinates Given Slope**

Find the value of r so that the line through (r, 6) and (10, -3)

has a slope of  $\frac{-2}{3}$ 



Find the value of r so that the line through (6, 3) and (r, 2) has a slope of  $\frac{1}{2}$ 

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#### **Example: Find Rate of Change**

Rate of change means **SLOPE**!!!!!

The graph shows the amount spent on food and drink at U.S. restaurants in recent years.

### 1. Find the rate of change for 1980-1990 and 1990-2000

1980-1990

1990-2000

