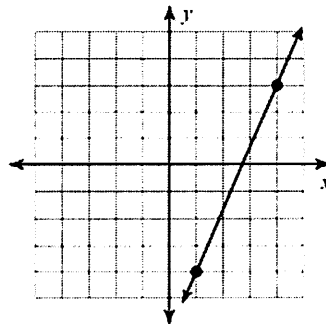
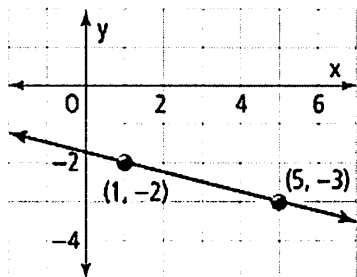


PRACTICE

1. Find the slope of each line.



2. Climber A climbs at a rate of 14 feet every 3 minutes. Climber B climbs 19 feet in 4 minutes. Which climber has the faster rate? Explain.

Let d represent the distance in feet and t represent the time in minutes. Write an equation for each climber that represents the number of feet climbed during any number of minutes.

3. In a linear equation, the independent variable, x , and the dependent variable, y , increases at a constant rate. Is the slope positive, negative, zero or undefined?

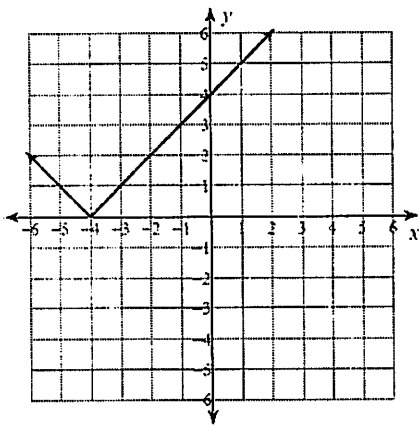
DAILY REVIEW

1. Solve and check.

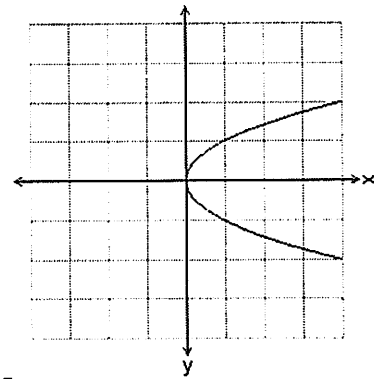
$$6x - 9 = 4x + 3$$

2. Which graphs are linear functions?

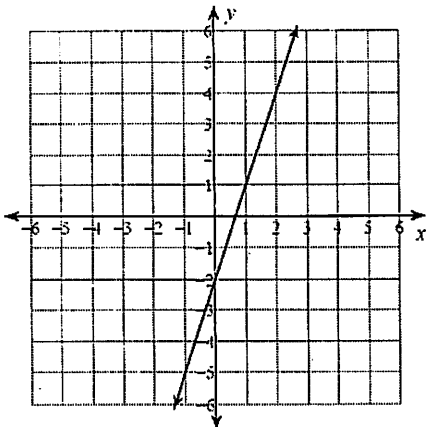
A



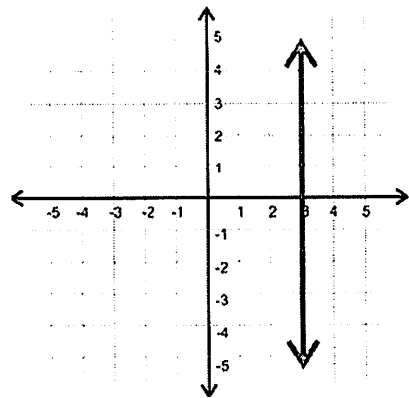
B



C

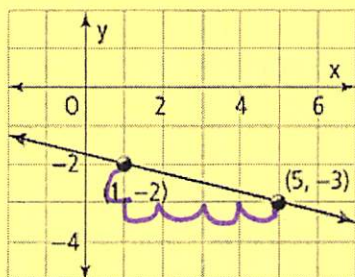


D

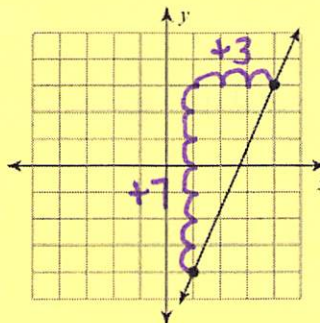


PRACTICE

1. Find the slope of each lines.



$$\frac{\Delta y}{\Delta x} = \frac{-1}{4} = -\frac{1}{4}$$



$$\frac{\Delta y}{\Delta x} = \frac{7}{3}$$

2. Climber A climbs at a rate of 14 feet every 3 minutes. Climber B climbs 19 feet in 4 minutes. Which climber has the faster rate? Explain.

Climber A

$$\frac{14 \text{ ft}}{3 \text{ min}} \xrightarrow{\div 3} \frac{4\frac{2}{3} \text{ ft}}{1 \text{ min}}$$

Climber B

$$\frac{19 \text{ ft}}{4 \text{ min}} \xrightarrow{\div 4} \frac{4.75 \text{ ft}}{1 \text{ min}}$$

Climber B has a faster rate → can go further per

min. Let d represent the distance in feet and t represent the time in minutes. Write an equation for each climber that represents the number of feet climbed during any number of minutes.

Climber A

$$d = 4\frac{2}{3} \cdot t$$

Climber B

$$d = 4\frac{3}{4} \cdot t$$

3. In a linear equation, the independent variable, x , and the dependent variable, y , increases at a constant rate. Is the slope positive, negative, zero or undefined?

DAILY REVIEW

1. Solve and check.

$$6x - 9 = 4x + 3$$

$$\begin{array}{r|l} -4x & -4x \\ 2x - 9 = 3 & \\ +9 & +9 \end{array}$$

$$\frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

Check

$$F: 6x - 9 = 4x + 3$$

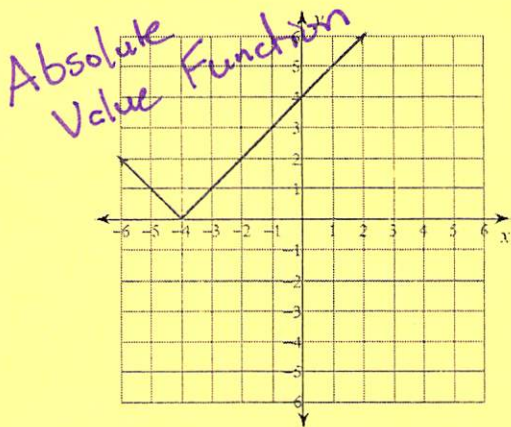
$$S: 6(6) - 9 = 4(6) + 3$$

$$S: 36 - 9 = 24 + 3$$

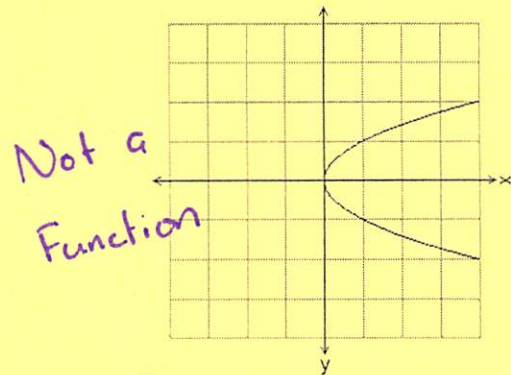
$$27 = 27 \checkmark$$

2. Which graphs are linear functions?

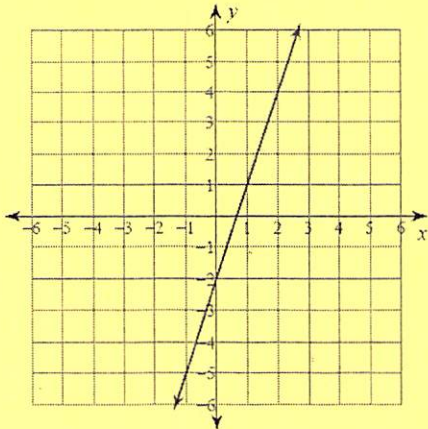
A



B



C



D

