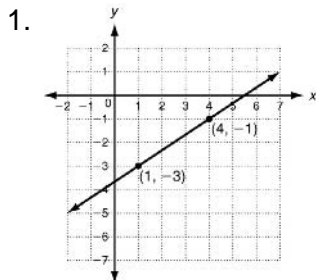


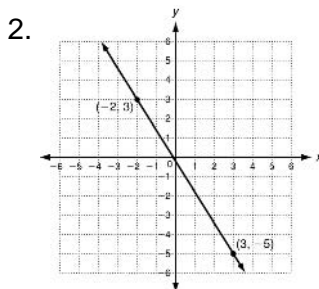
LESSON
10-3

Practice C
Rate of Change and Slope

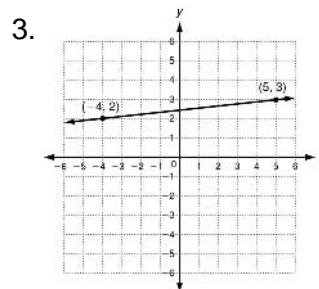
Find the slope of each line.



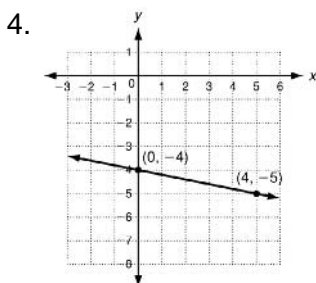
slope = _____



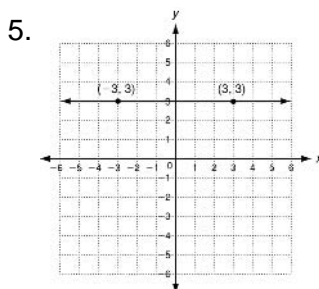
slope = _____



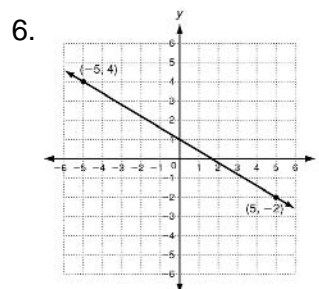
slope = _____



slope = _____

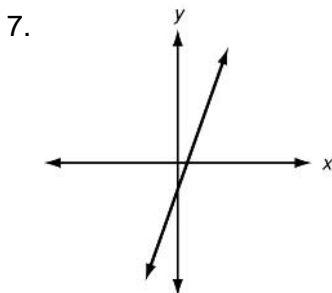


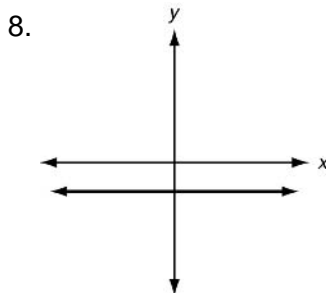
slope = _____

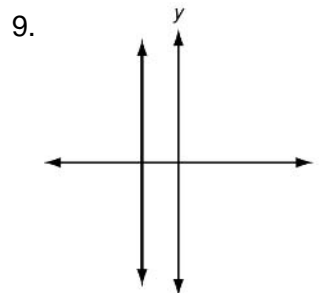


slope = _____

Tell whether the slope of each line is positive, negative, zero, or undefined.



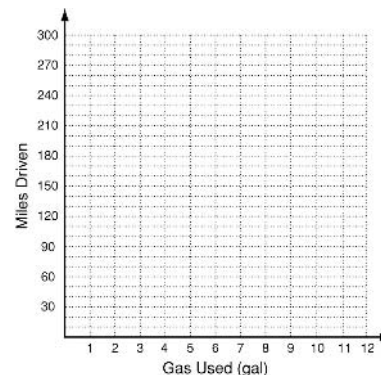




10. The table shows the distance a car drove on one tank of gasoline.

Miles driven	0	60	150	170	230	260
Gas Used (gal)	0	2	5	6	9	11

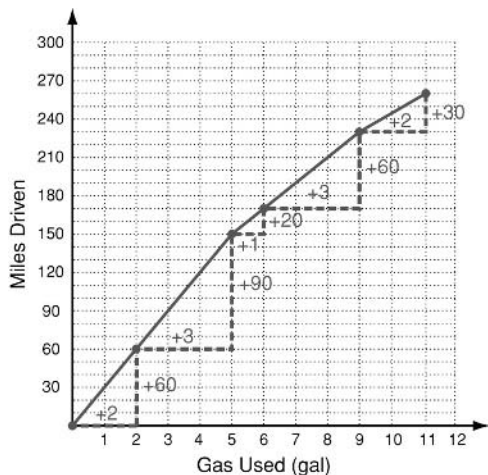
- Graph the data and show the rates of change.
- The rate of change represents the gas mileage in miles per gallon. Between which two measurements was the car's gas mileage least?



Practice C

1. $\frac{2}{3}$
2. $-\frac{8}{5}$
3. $\frac{1}{9}$
4. $-\frac{1}{4}$
5. 0
6. $-\frac{3}{5}$
7. positive
8. Zero
9. undefined

10.



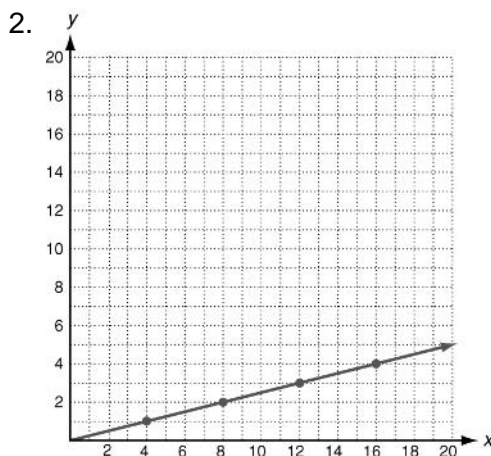
between gallons 5 and 6

Review for Mastery

1. $\frac{1.63 - 1.27}{1988 - 1986} = \frac{0.36}{2} = 0.18$
2. $\frac{1.15 - 1.63}{1989 - 1988} = \frac{-0.48}{1} = -0.48$
3. $\frac{2.26 - 1.5}{1991 - 1989} = \frac{1.11}{2} = 0.555$
4. 1989 to 1991
5. yes; 1988 to 1989
6. 2
7. $-\frac{1}{4}$
8. $\frac{3}{4}$
9. $-\frac{1}{2}$
10. 1
11. -5

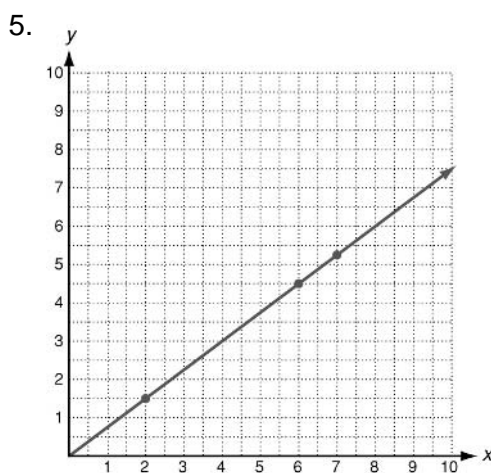
Challenge

1. Possible answer: $\frac{2}{8}, \frac{3}{12}, \frac{4}{16}$



They form a straight line.

3. $\frac{1}{4}$



(4, 3), (8, 6)

6. $\frac{3}{4}, \frac{3}{4}$
7. $\frac{3}{4}$
8. The fractions are written as $\frac{y}{x}$ and slope is defined as change in y divided by change in x .
9. yes; $(-4, -3)$ would be written as $\frac{-3}{-4}$ which equals $\frac{3}{4}$.