Name _____ Class _____ Date _____
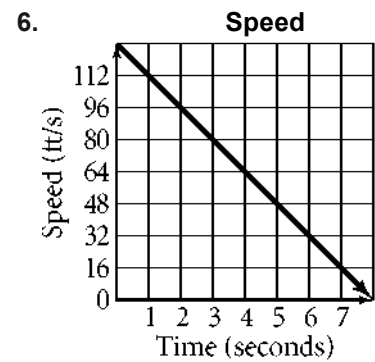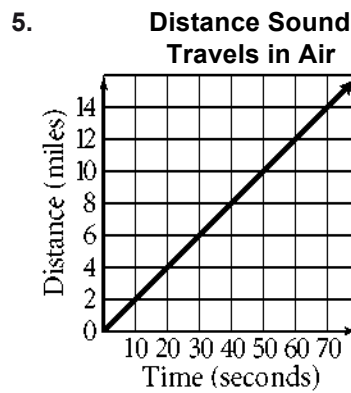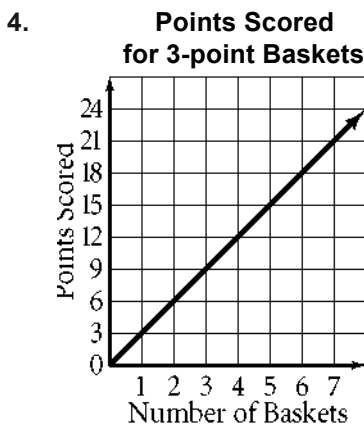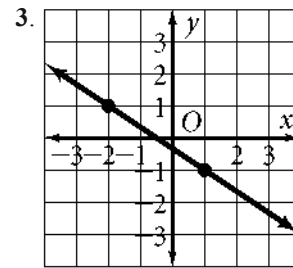
Practice 5-1

Rate of Change and Slope

The rate of change is constant in each table and graph. Find the rate of change. Explain what the rate of change means for each situation.
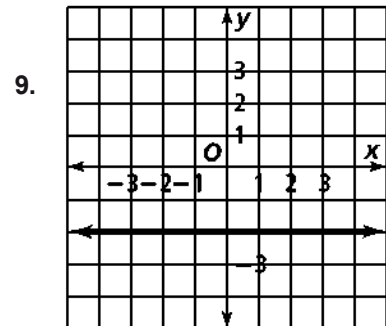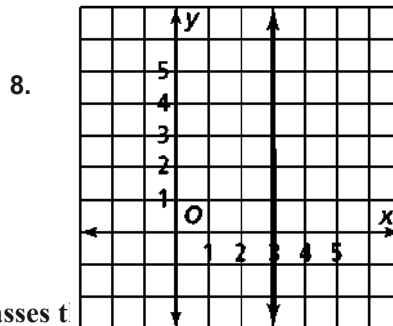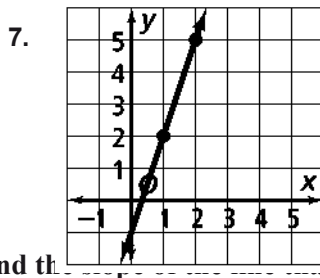
1.

Number of Baskets	Points Scored
1	3
2	6
3	9
4	12
5	15

2.

Miles Traveled	Fuel used (gallons)
80	4
120	6
160	8
200	10
240	12

3.

4. **Points Scored for 3-point Baskets**

5. **Distance Sound Travels in Air**

6. **Speed**

Find the slope of each line

7.

8.

9.

Find the slope of the line that passes through the given points.

10. (-2,5), (3,-4)

11. (2,4), (6,4)

12. (-2,-5), (4,5)

13. (-3,-2), (4,-2)

14. (4,-2), (4,9)

15. (5,2), (5,-4)

Through the given point, draw the line with the given slope.

16. $P(3, -2)$

slope 3

17. $K(0,4)$

slope -1

18. $M(-2,3)$

slope $-\frac{5}{3}$