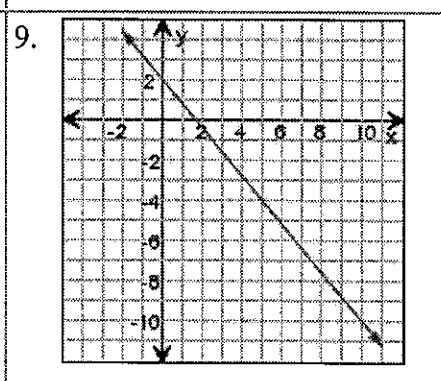
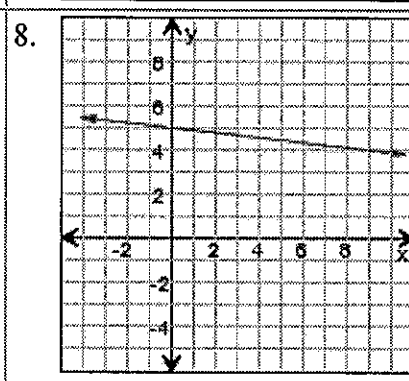
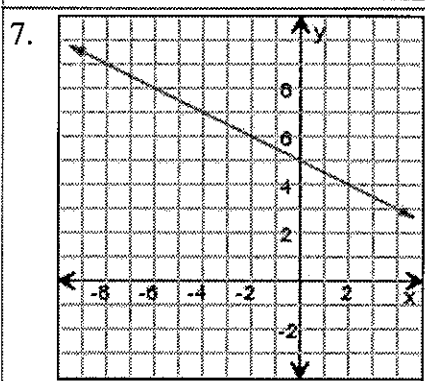
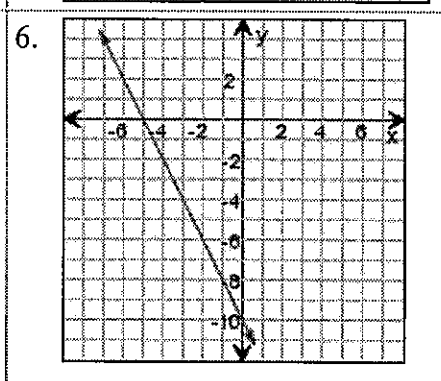
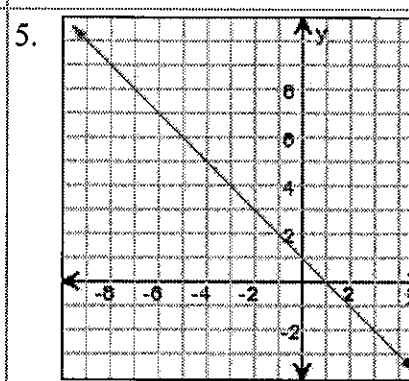
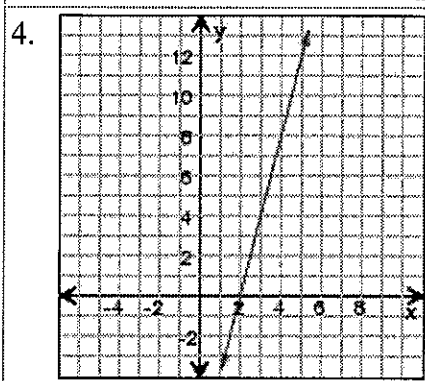
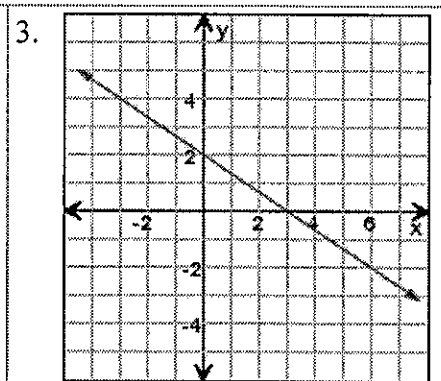
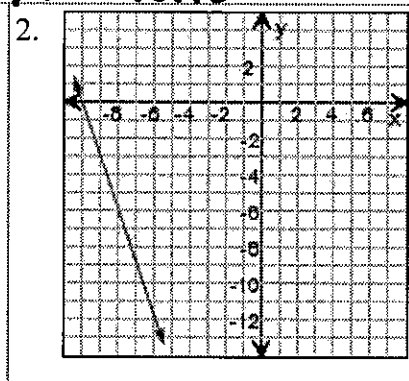
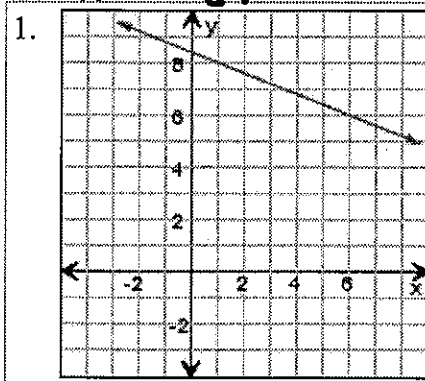


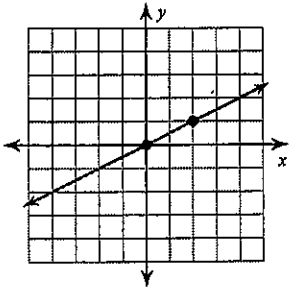
Algebra I
Slope Packet

Find the slope of each line. Also determine if the slope is rising, falling, vertical, or horizontal

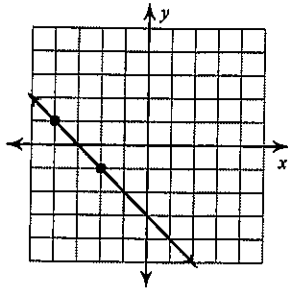


Find the slope of each line. & the direction of the line

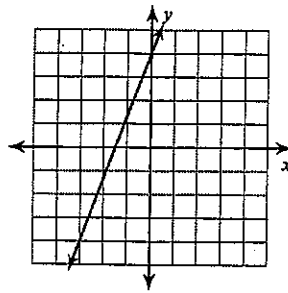
1)



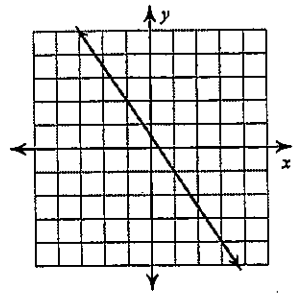
2)



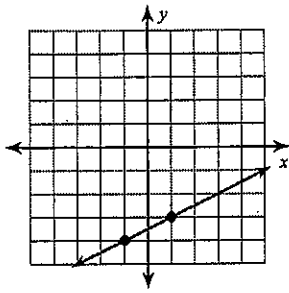
9)



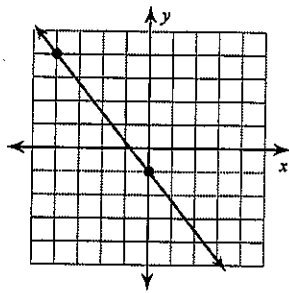
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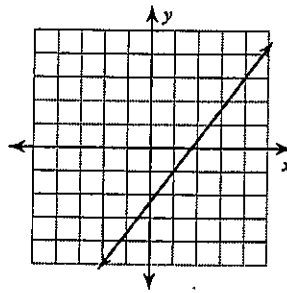
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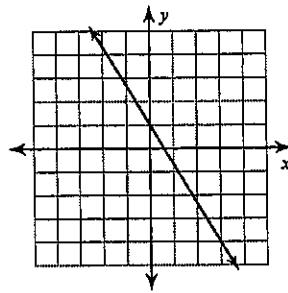
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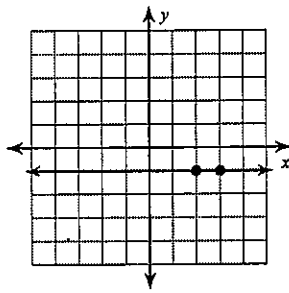
11)



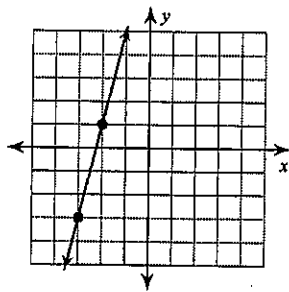
12)



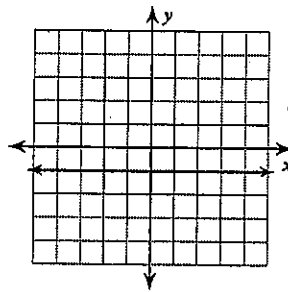
5)



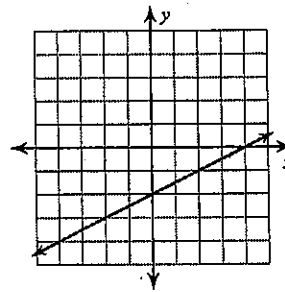
6)



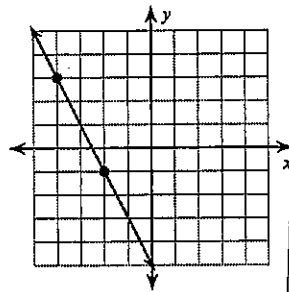
13)



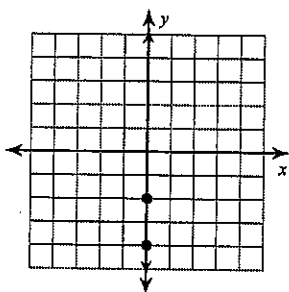
14)



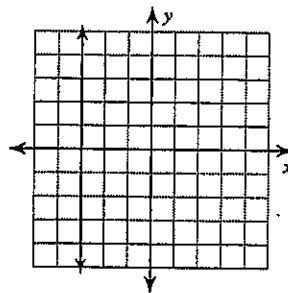
7)



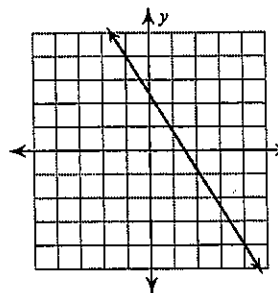
8)



15)



16)

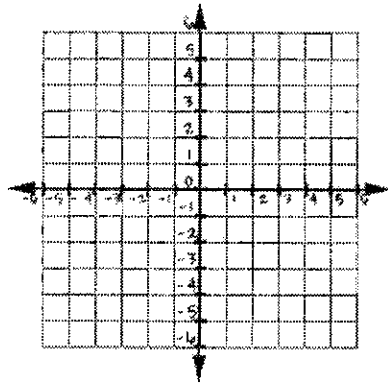


-1-

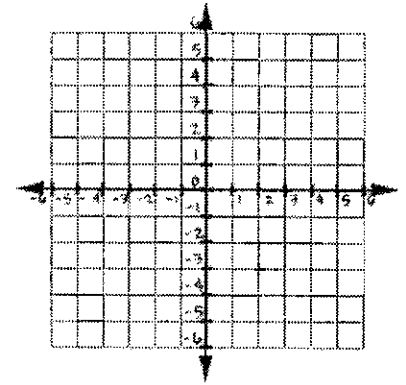
-2-

Graph each slope through the origin. Use a different color for each slope.

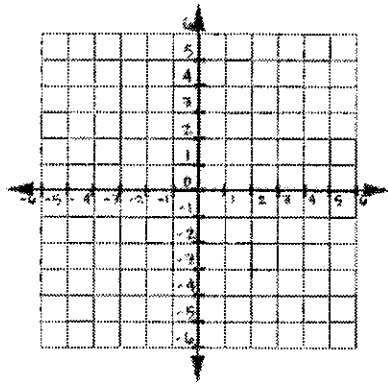
1. $m_1 = \frac{1}{2}$
 $m_2 = -\frac{1}{2}$



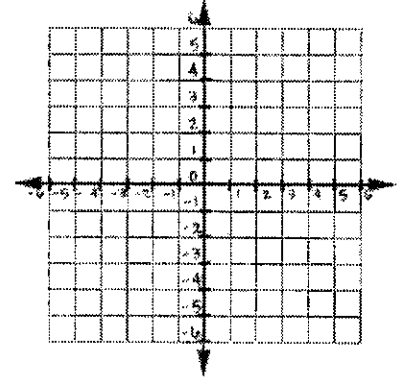
2. $m_1 = \frac{3}{4}$
 $m_2 = -\frac{3}{4}$



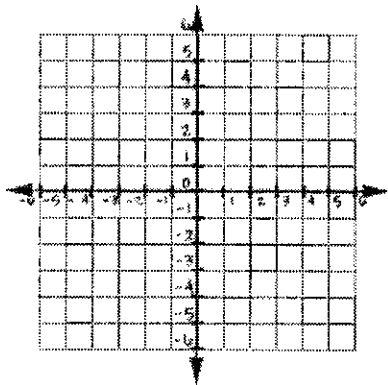
3. $m_1 = \frac{5}{6}$
 $m_2 = \frac{1}{4}$



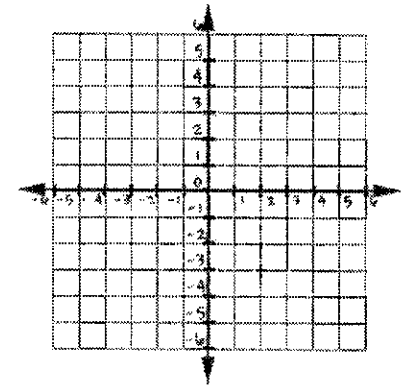
4. $m_1 = 3$
 $m_2 = \frac{1}{2}$



5. $m_1 = -3$
 $m_2 = 4$



6. $m_1 = -2$
 $m_2 = -3$

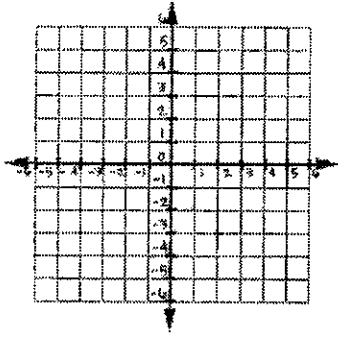


Algebra I
Slope Practice #2

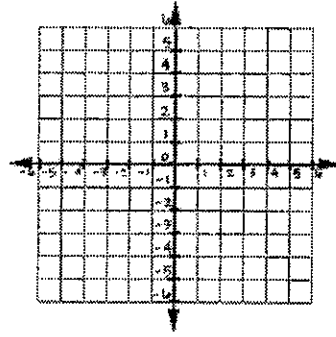
PART I: GRAPHING SLOPES WITH THE ORIGIN

Graph each slope through the origin. Use a different color for each slope.

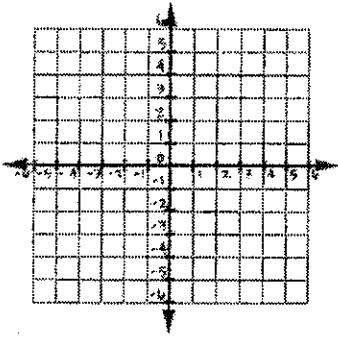
1. $m = \frac{1}{4}, m = 2, m = -3$



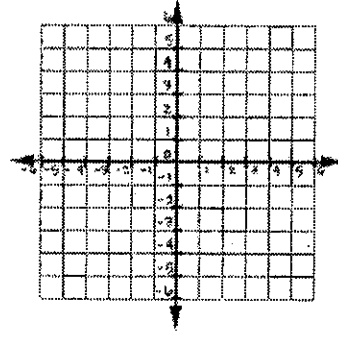
2. $m = \frac{3}{4}, m = -4, m = 1$



3. $m = 4, m = -1, m = \frac{1}{4}$



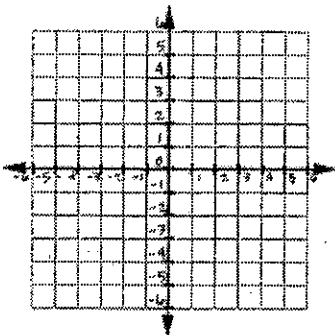
4. $m = -\frac{1}{2}, m = -2, m = 3$



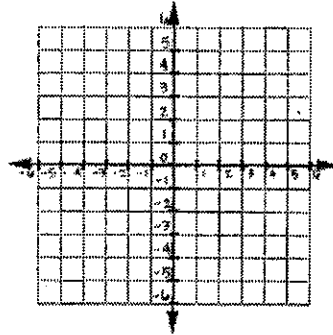
PART II: GRAPHING SLOPES THROUGH POINTS

Graph a line that contains the given point and has the given slope. Use a different color for each slope.

1. $(-2, 3) m = \frac{1}{2}$
 $(1, 4) m = -\frac{1}{3}$



2. $(1, 4) m = -2$
 $(-2, -3) m = 3$



PART II: SLOPE FORMULA

$$\frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope of each line **AND** the determine if the slope is rising, falling, horizontal, or vertical.

1. A(-2, 5) B(5, -6)

2. C(3, 4) D(-5, -8)

3. E(-2, -5) F(-6, -5)

4. G(3, -5) H(-2, -7)

5. I(-2, 7) J(5, -2)

6. K(0, 5) L(0, -8)

Find the slope of each line **AND** determine if the slope is rising, falling, horizontal, or vertical.

1. A(-1, 0) B(2, -1)

2. C(0, -4) D(-2, 3)

3. E(1, -3) F(1, -5)

4. G(-2, -5) H(2, -4)

5. I(-2, 3) J(5, 3)

6. K(-1, 5) L(-4, -8)

Find the slope and direction for each line.

1) $(19, -16), (-7, -15)$

2) $(1, -19), (-2, -7)$

3) $(-4, 7), (-6, -4)$

4) $(20, 8), (9, 16)$

5) $(17, -13), (17, 8)$

6) $(19, 3), (20, 3)$

7) $(3, 0), (-11, -15)$

8) $(19, -2), (-11, 10)$

change

time

Part III: Slope Application Problems

Find the slope for each problem.

1. An airplane takes off at 7:15 a.m. At 7:20 a.m. the plane is already at 12,000 feet. What is the rate of change for the airplane?
 2. A skydiver jumps out of a plane at 2:33 p.m. when he is at 13,500 feet. By 2:37 he is at 3,750 feet. What is the skydiver's rate of change?
 3. The Smiths bought a house in 1995 for \$135,000. In 2006 they sold their house for \$172,000. What is the rate of change for the value of their house?
-
1. Jim bought a new truck in 2002 for \$22,000. He sold his truck in 2007 for \$8,500. What was the rate of change for Jim's truck?
 2. A submarine starts its decent into the ocean at 10:03 a.m. By 10:10 am, it is 1,200 feet below. What is the rate of change for the submarine?
 3. Stacy wanted to lose weight before the prom. When she started her diet she weighed 165 pounds. After 3 months, she weighed 142 pounds. What was the rate of change for Stacy's weight?