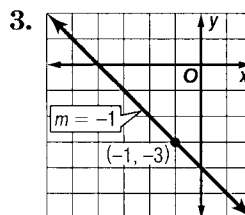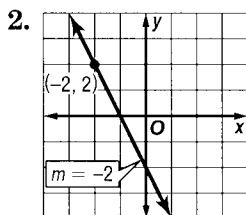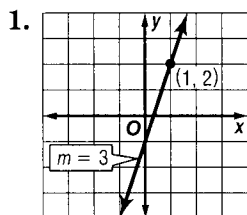Algebra 1 Q2HW2

5-4 **Practice** *(ALL WORK ON LOOSELEAF) LOOK!*

Writing Equations in Slope-Intercept Form

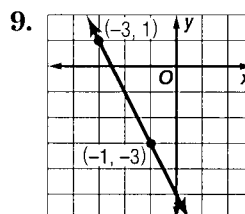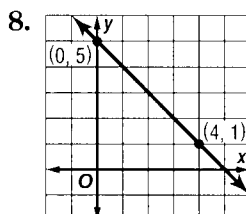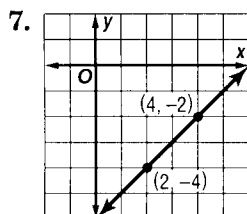**Write an equation of the line that passes through each point with the given slope.**

1.

(1, 2) m = 3

2.

(-2, 2) m = -2

3.

m = -1 (-1, -3)

4. $(-5, 4), m = -3$

5. $(4, 3), m = \dfrac{1}{2}$

6. $(1, -5), m = -\dfrac{3}{2}$

Write an equation of the line that passes through each pair of points.

7.

(4, -2) (2, -4)

8.

(0, 5) (4, 1)

9.

(-3, 1) (-1, -3)

10. $(0, -4), (5, -4)$

11. $(-4, -2), (4, 0)$

12. $(-2, -3), (4, 5)$

13. $(0, 1), (5, 3)$

14. $(-3, 0), (1, -6)$

15. $(1, 0), (5, -1)$

Write an equation of the line that has each pair of intercepts. *(USE DEFINITION OF INTERCEPTS)*

16. x-intercept: 2, y-intercept: -5

TIP: (2,0), (0,-5) BY DEFINITION

17. x-intercept: 2, y-intercept: 10

See TIP

18. x-intercept: -2, y-intercept: 1

See TIP

19. x-intercept: -4, y-intercept: -3

See TIP

20. DANCE LESSONS The cost for 7 dance lessons is $82. The cost for 11 lessons is $122. Write a linear equation to find the total cost C for ℓ lessons. Then use the equation to find the cost of 4 lessons.

21. WEATHER It is 76°F at the 6000-foot level of a mountain, and 49°F at the 12,000-foot level of the mountain. Write a linear equation to find the temperature T at an elevation e on the mountain, where e is in thousands of feet.