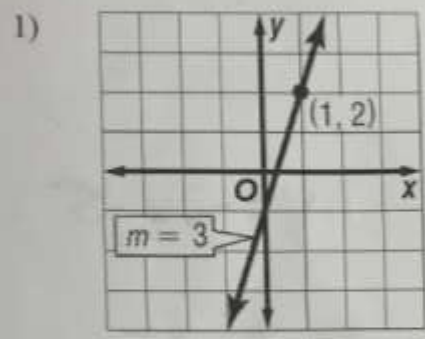


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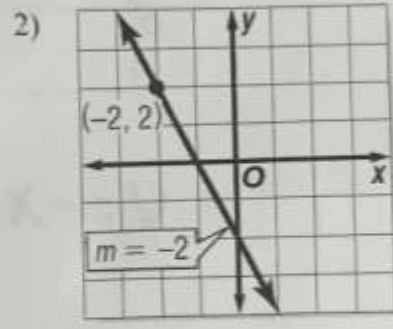
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2.4 Writing Equations in Slope-Intercept Form Worksheet Day 1

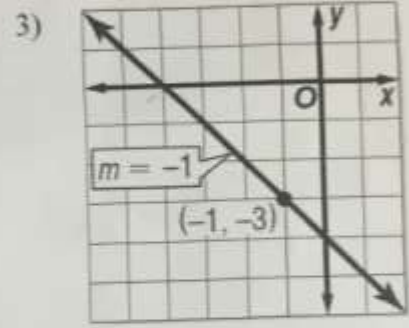
Write a slope-intercept form equation of the line that passes through each point with the given slope. Use Point-Slope Form.



$$y = 3x - 1$$



$$y = -2x - 2$$



$$y = -x - 4$$

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

$$y = -3x - 11$$

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

$$y = \frac{1}{2}x + 1$$

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

$$y = -\frac{3}{2}x - \frac{7}{2}$$

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

7) $(0, -4)$, $(5, -4)$

$$y = -4$$

8) $(-4, -2)$, $(4, 0)$

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

9) $(-2, -3)$, $(4, 5)$

$$y = \frac{4}{3}x - \frac{1}{3}$$

10) $(0, 1)$, $(5, 3)$

$$y = \frac{2}{5}x + 1$$

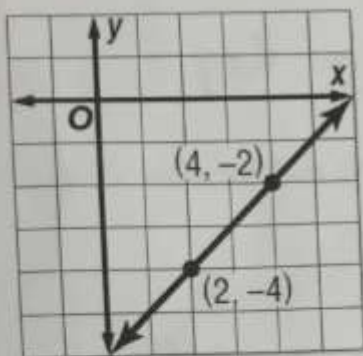
11) $(-3, 0)$, $(1, -6)$

$$y = -\frac{3}{2}x - \frac{9}{2}$$

12) $(1, 0)$, $(5, -1)$

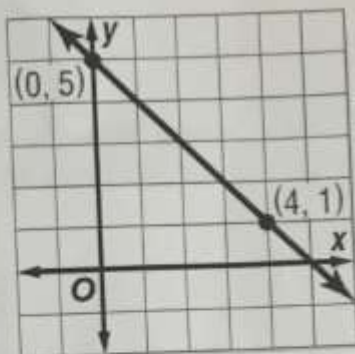
$$y = -\frac{1}{4}x + \frac{1}{4}$$

13)



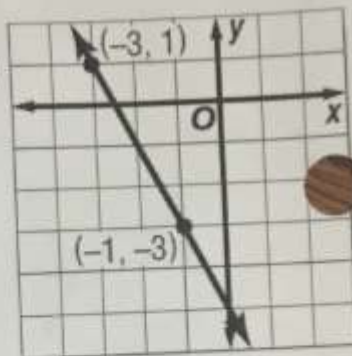
$$y = x - 6$$

14)



$$y = -x + 5$$

15)



$$y = -2x - 5$$

Write an equation of the line that has each pair of intercepts.

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

$$y = \frac{5}{2}x - 5$$

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

$$y = -5x + 10$$

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

$$y = \frac{1}{2}x + 1$$

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

$$y = -\frac{3}{4}x - 3$$

20) The cost for 7 dance lesson 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. **HINT: Use the cost of the lessons as ordered pairs**

$$C = 10l + 12$$

4 Lessons
costs \$52.