Algebra I
5.3 Warm-Up #2

Name: _____
Date: _____ Hour: ___

Find the slope of the lines passing through the following points.

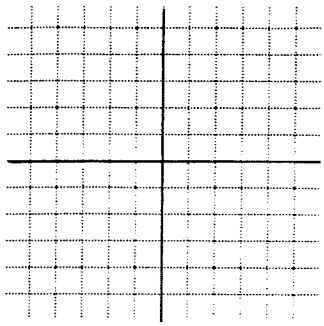
1. (0, −6), (−3, 3) _____ **2.** (−2, −4), (5, −1) _____ **3.** (−1, −2), (−3, −4) _____

Write the equation for a line

4. with slope 2 and y-intercept 5. _____

5. with slope −3 and y-intercept 1. _____

6. Graph $y = \frac{2}{3}x - 4$ by using the slope and y-intercept.



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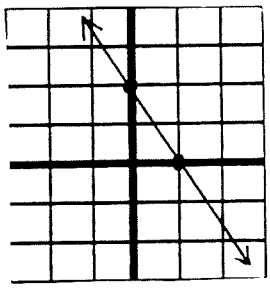
7. Write an equation in slope-intercept form for the line graphed below. _____



8. *Multiple choice* What is the slope-intercept form of an equation of a line?

(a) $a^2 + b^2 = c^2$ (b) $Ax + By = C$

(c) $\frac{Y_2 - Y_1}{X_2 - X_1}$ (d) $y = mx + b$

Write an equation in slope-intercept form for the line that fits each description below.

9. crosses the y-axis at 3 and has a slope of $-\frac{1}{3}$ _____

10. contains the origin and has a slope of 7 _____

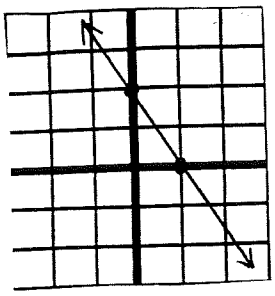
11. crosses the y-axis at −3 and has a slope of 6 _____

Without graphing, describe what the graph of each equation looks like. Include information about the slope and y-intercept.

12. $y = -4x + 7$ slope is ___; y-intercept is ___

13. $y = \frac{4}{5}x - 3$ slope is ___; y-intercept is ___

7. Write an equation in slope-intercept form for the line graphed below. _____



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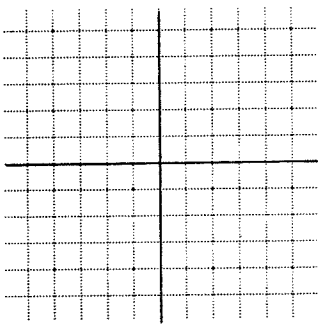

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