

Skill Development/Guided Practice (continued	
The slope of a line (m) is the ratio of the a to the change in x . The <i>y</i> -intercept (b) is the point at which the passes through the <i>y</i> -axis.	change in y y-intercept y = mx + b slope
 Write the equation of a line with a slope of -2 and y-intercept of (0, 5). 	 Write the equation of a line with a slope of 4 and y-intercept of (0, -3).
7. Write the equation of the line represented by the table below. $ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	8. Write the equation of the line represented by the table below. $ \begin{array}{r} x & y \\ 4 & -2 \\ 0 & -3 \\ -4 & -4 \end{array} $
9. Write the equation of the line passing through (-2, -1) and (2, 5).	10. Write the equation of the line passing through (6, 2) and (-3, -4).



Solving Math Problems

- 1 Determine what the question is asking.
- 2 Determine the math concept required.
- 3 Determine relevant information.
- 4 Solve the problem, then interpret the answer.
- 5 Check the reasonableness of your answer.
- Henrietta is saving money while working a summer job. At the beginning of summer, she has \$40 in her bank account. She saves \$30 more every 4 weeks. Write an equation to show the relationship between money saved (*d*) and weeks (*w*) worked.



Slope: _____



Equation: _____



12. Wayne is driving and notices traffic ahead is coming to a stop. He is going 70 miles per hour and slows 50 miles per hour every 6 seconds. Write an equation to show the relationship between his speed (*s*) to the number of seconds (*t*) that pass.



Slope:	
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y-intercept: _____

Equation: _____



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5. Write the equation of the line passing through (3, 0) and (-2, 5).



Solving Math Problems

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- 4 Solve the problem, then interpret the answer.
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y-intercept < y = mx + bslope

6. Carlos is joining a new gym. The gym charges a \$30 activation fee and a monthly rate of \$25. Write an equation for determining the amount of money Carlos will pay the gym (g) for any number of months (n).



Slope: _____

<i>y</i> -intercept:	

Equation: _____

