General Algebra II Worksheet #3 Unit 2 page 1 _____

Objective: Given the description of a line, the students will be able to write the equation of the line. A line is described in each of the following problems. You are to write the equation of the line. If the line is oblique, you must write its slope-intercept equation. Show your work neatly organized.

1. **The horizontal line through (-1, 6)** _____
2. **The vertical line through (-1, 6)** _____
3. **The line with slope 0 through (2, -3)** _____
4. **The line with "no slope" through (2, -3)** _____
5. **The line with slope 5 and y-intercept 2** _____
6. **The line with slope 5/3 through (0, 3)** _____
7. **The line with slope -5/2 through (0, 6)** _____
8. **The line with slope 1/4 through (8, -1)** _____
9. **The line with slope 5/3 through (6,-2)** _____
10. **The line with slope 2/3 through (2,4)** _____

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Objective: Given two points on a line, the students will be able to determine whether the line is horizontal, vertical, or oblique, and write the equation of the line.
A line is described in each of the following problems. You are to determine whether the line is horizontal, vertical, or oblique, and write its equation. If the line is oblique, write its slope-intercept equation. Show your work neatly organized.

11. The line through (-4, -5) and (0, -2) _____

12. The line through (0, 4) and (1, -3) _____

13. The line through (3, -5) and (3, 1) _____

14. The line through (5, 4) and (-3, 4) _____

15. The line through (6, 8) and (-6, 0) _____

16. The line through (-4, 3) and (6, -2) _____

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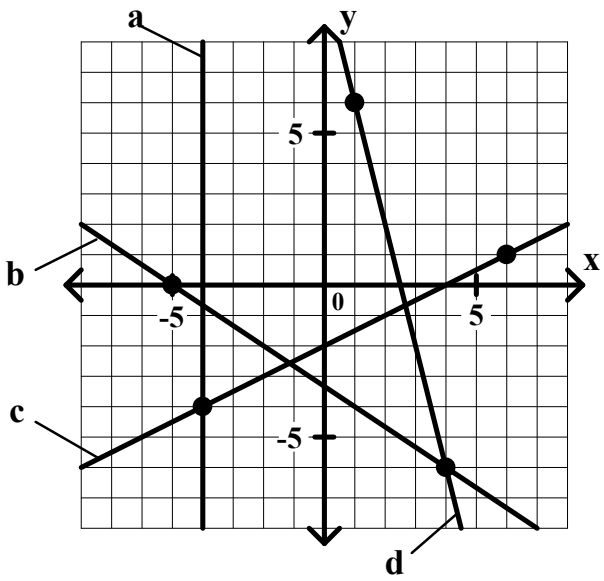
Objective: Given the graph of a line, the students will be able to determine whether the line is horizontal, vertical, or oblique, and write the equation of the line.
Several lines are graphed below. You are to determine whether the line is horizontal, vertical, or oblique, and write its equation. If the line is oblique, write its slope-intercept equation. Show your work neatly organized.

17. Line a:



18. Line b:

19. Line c:

20. Line d: