

Mth 112 Ch. 7 Practice Test

Chapter 7, Linear Equations and Inequalities in Two Variables, Test A page one

Find the slope (if any), and any x-intercepts or y-intercepts of the following equations.

1. $2x + y = 5$ 2. $y + 3 = 0$ 3. $4x + 2y = 1$ 4. $3x - 2y = 0$ 5. $x - 2 = 0$

6. Which pairs of the above equations give graphs that are parallel straight lines?
7. Which pairs of the above equations give graphs that are perpendicular straight lines?
8. What can be said about the slope of a horizontal line?
9. What can be said about the slope of a vertical line?
10. Compute the distance from $(-8, -5)$ to $(-2, 6)$.
11. Find the coordinates of the point that is halfway between $(-8, -5)$ and $(-2, 6)$.

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Let L_1 symbolize the straight line through $(2,1)$ and $(-4,6)$.

12. Find the point-slope form of the equation for L_1 . 13. Find the standard form of the equation for L_1 .

14. Find the slope-intercept form of the equation for L_1 .

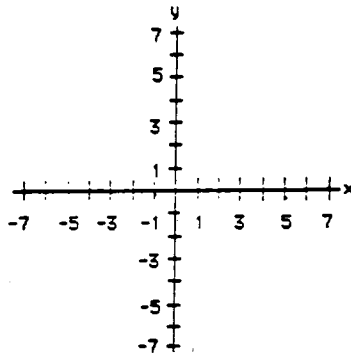
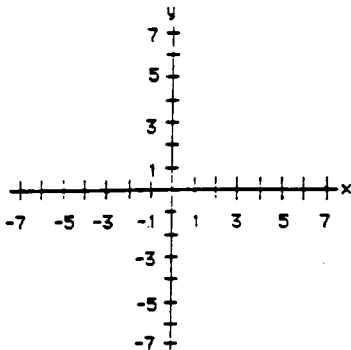
Sketch the graph of the equation or inequality on the grid to its right.

✱

15. $x + 2y = 6$

16. $3x - y > 3$

* include a T-table
• is it a function?



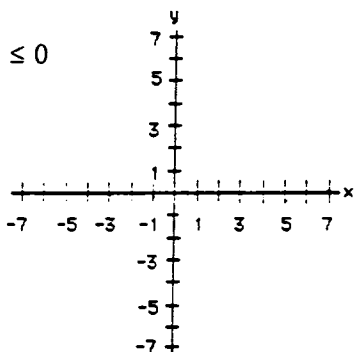
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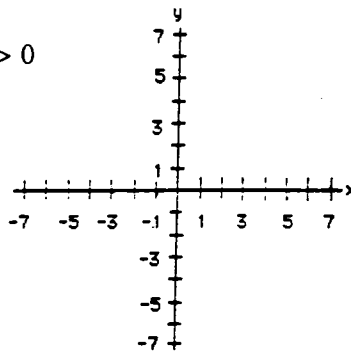
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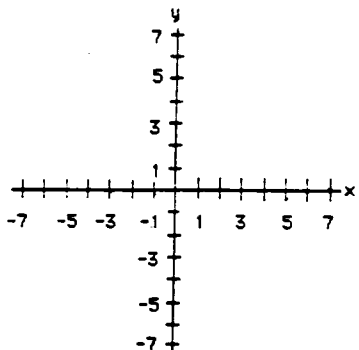
17. $y - 3 \leq 0$



18. $x + 2 > 0$



19. $|2 + x| \leq 1$



20. $|y - 1| > 3$

