Name _____ Class _____ Date _____

Practice 6-2

Slope-Intercept Form

Find the slope and *y*-intercept of each equation. Then graph.

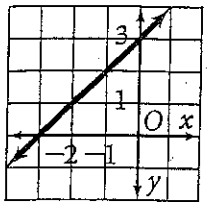
1. $y = x + 2$
2. $y + 3 = -\frac{1}{3}x$
3. $y = 2x - 1$
4. $y - \frac{3}{5}x = -1$
5. $y = \frac{1}{2}x - 4$
6. $y - 2x = -3$
7. $y = \frac{2}{5}x + 3$
8. $y + \frac{1}{3}x = -2$
9. $y = -x - 2$
10. $y - 6 = -2x$
11. $y = -5x - 2$
12. $y + x = 0$
13. $y + 4 = 2x$
14. $y = -5x + 5$
15. $y = -4 + x$
16. $y = -4x$
17. $y = \frac{4}{5}x + 2$
18. $y - \frac{3}{4}x = -5$
19. $y = -6$
20. $y - 3 = -\frac{2}{3}x$
21. $y = -\frac{7}{4}x + 6$
22. $y + 3x = 6$
23. $y + \frac{1}{5}x = -2$
24. $y = \frac{3}{7}x$

Write an equation of a line with the given slope and *y*-intercept.

25. $m = 4, b = 8$
26. $m = -2, b = -6$
27. $m = \frac{4}{3}, b = 0$
28. $m = -\frac{9}{5}, b = -7$
29. $m = -6, b = 1$
30. $m = \frac{3}{7}, b = -1$
31. $m = -\frac{1}{5}, b = -3$
32. $m = 9, b = 4$
33. $m = -8, b = 11$
34. $m = \frac{2}{9}, b = 0$
35. $m = -11, b = 13$
36. $m = \frac{7}{2}, b = -6$

Write the slope-intercept form of the equation for each line.

37.



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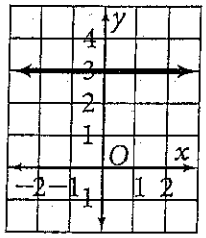

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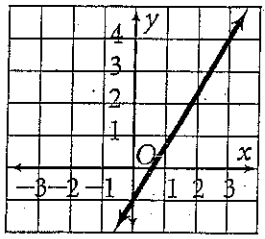

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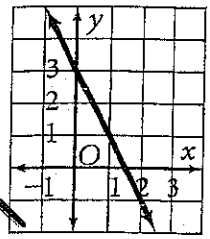

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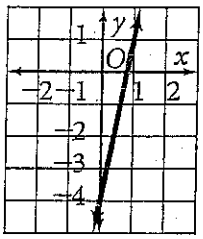

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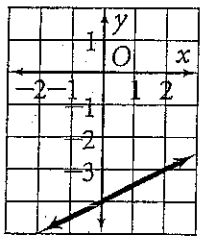
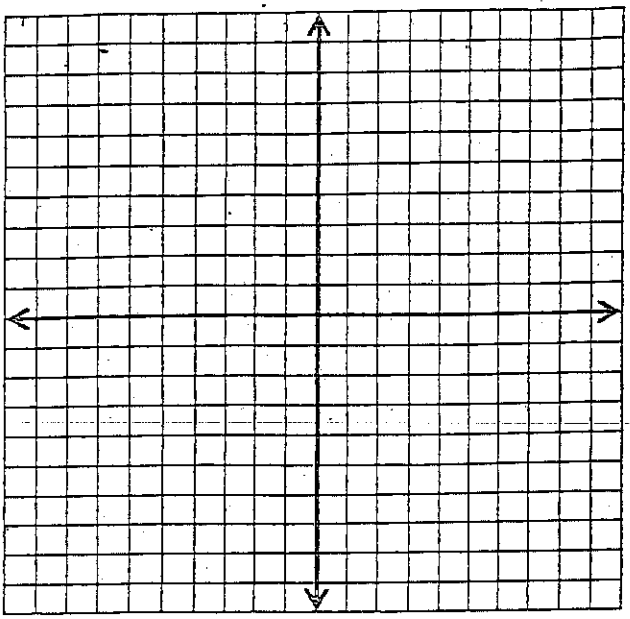


43. A television production company charges a basic fee of $4000 and then $2000 per hour when filming a commercial.

   a. Write an equation in slope-intercept form relating the basic fee and per-hour charge.

   b. Graph your equation.

   c. Use your graph to find the production costs if 4 hours of filming were needed.



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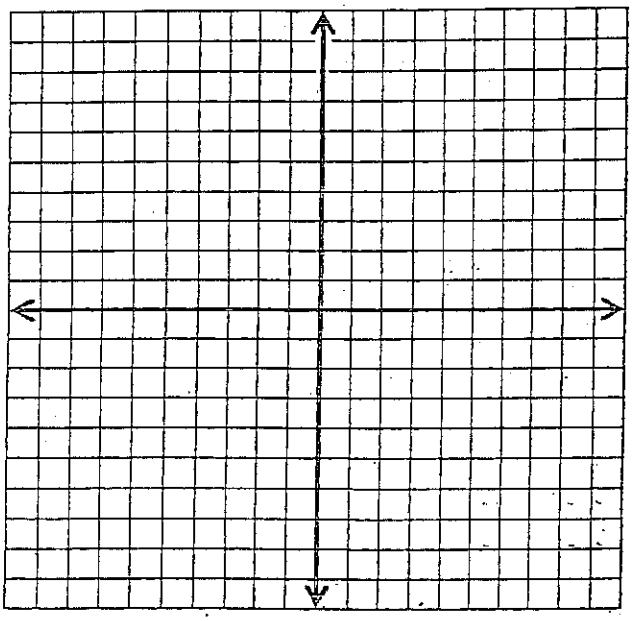

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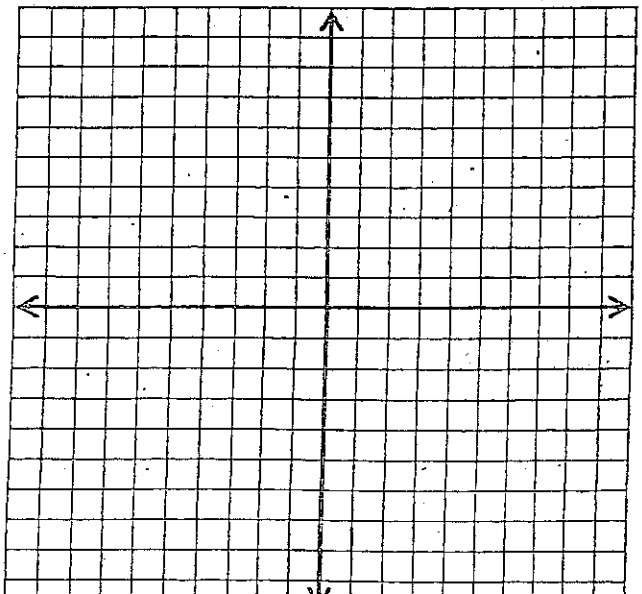

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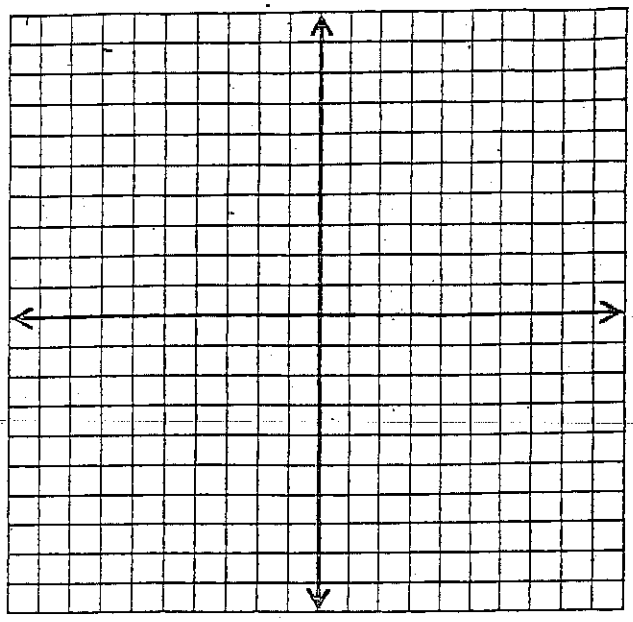

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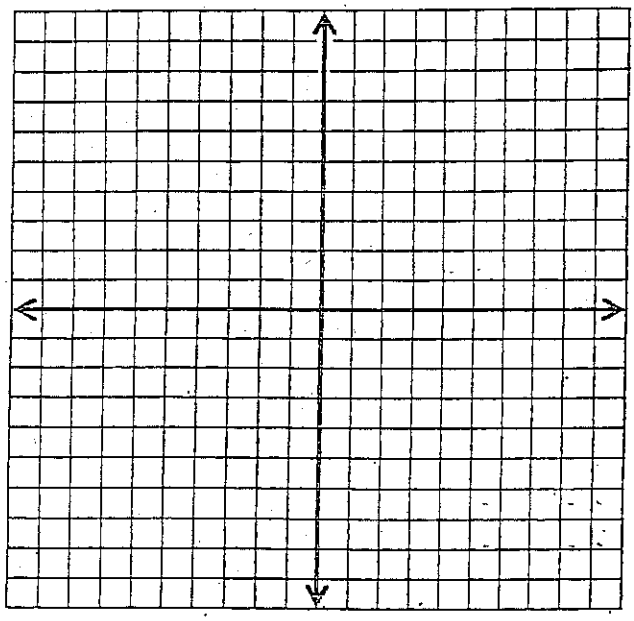

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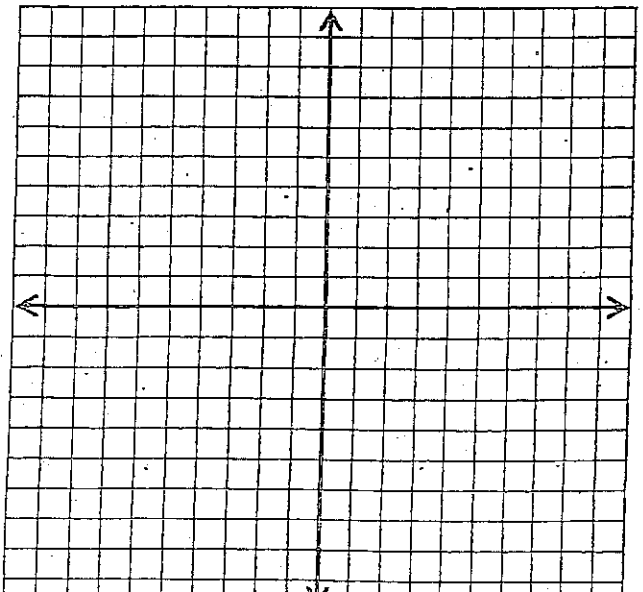

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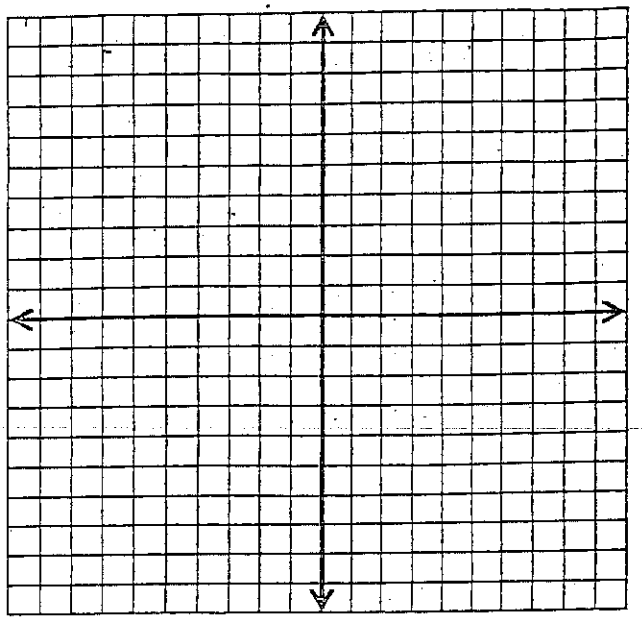

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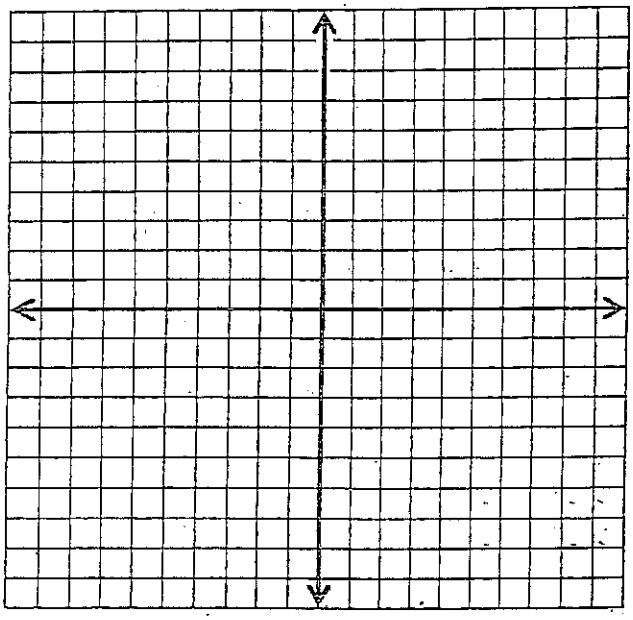

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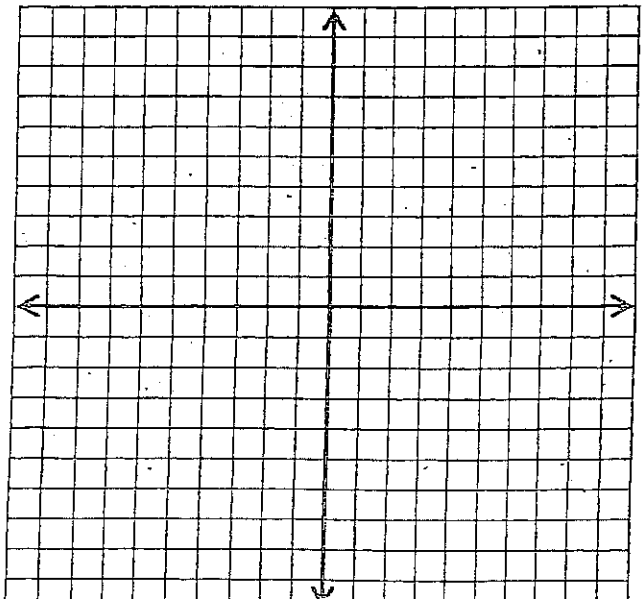

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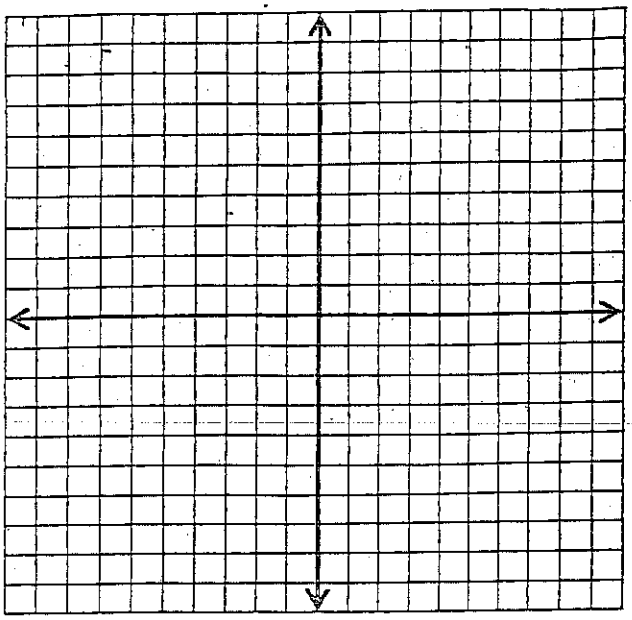

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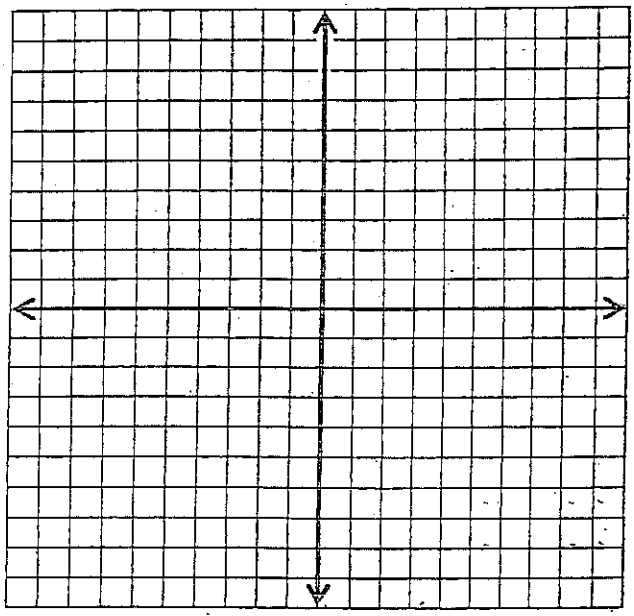

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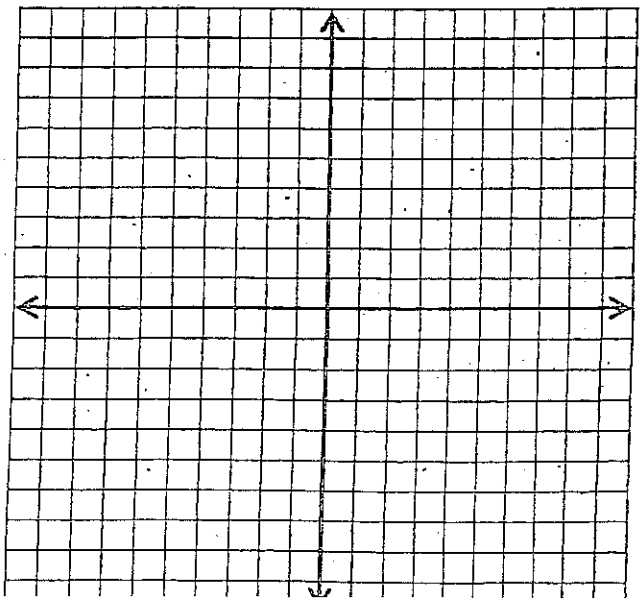

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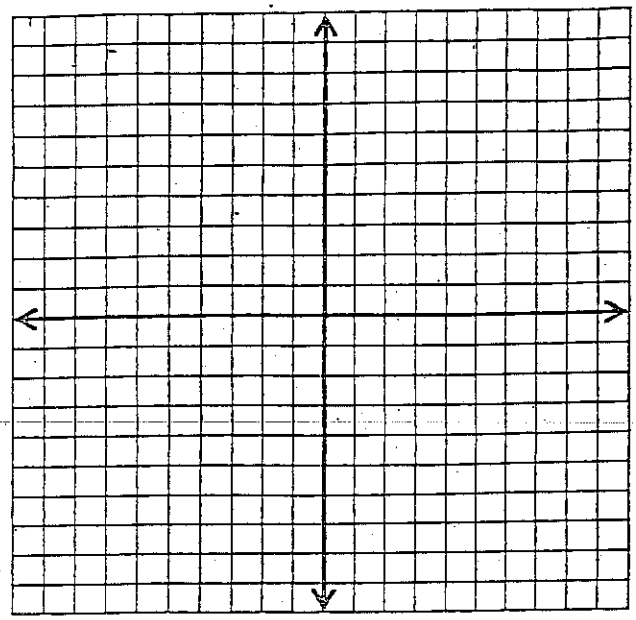

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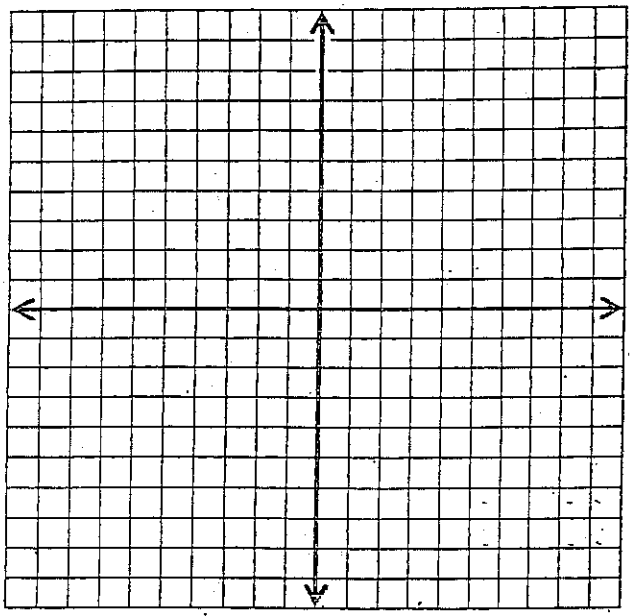

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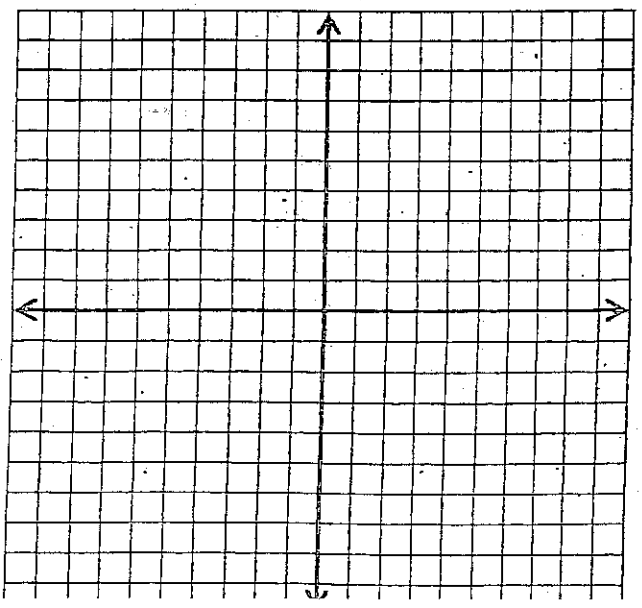

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