

You must show work to receive credit.

Write "yes" if the relationship is linear, "no" if it is not.

1. $y = 4x + 5$ _____

2. $y = \frac{1}{x}$ _____

3. $y = 5x^2 + 2$ _____

4. $x = 3$ _____

5.

x	3	4	5	6
y	-4	1	6	11

6.

x	-2	-3	-4	-5
y	1	2	4	8

Identify the slope (m) and the y-intercept (b) for each equation:

7. $y = 3x - 2$

8. $y = \frac{1}{3}x - 1$

9. $y = -3x$

10. $y = x$

11. $x = 4$

12. $y = 1$

Write each equation in $y = mx + b$ form.

13. $2x + y = 13$

14. $3x + y = 12$

15. $4x + 2y = 20$

16. $4x - y = -12$

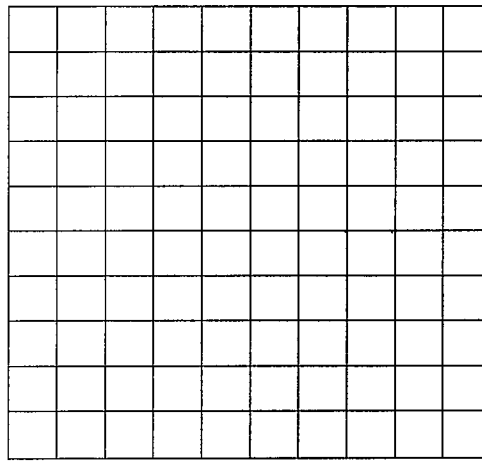
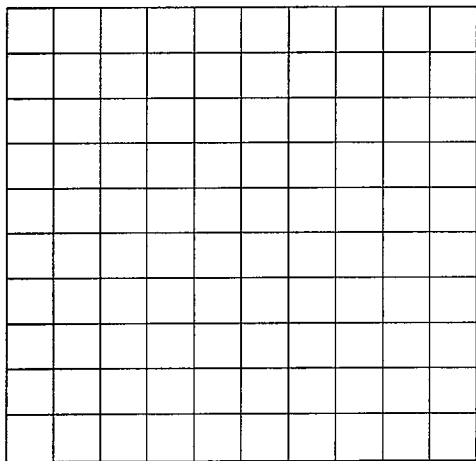
17. $2x + 3y = 9$

18. $x - y = 0$

Graph each equation.

19. $y = 2x - 3$

20. $y = -\frac{1}{3}x + 3$



21. $y = 4x$

22. $x = 3$

