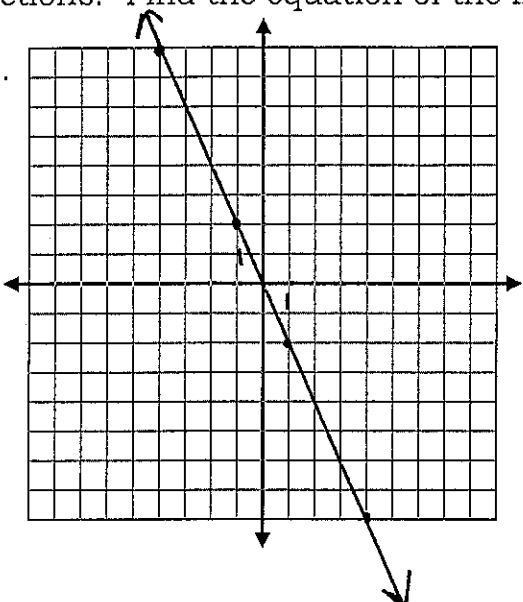
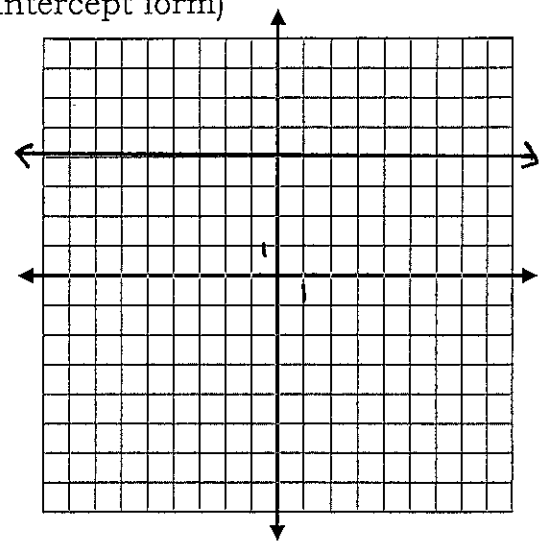


Directions: Find the equation of the line. (Write in slope-intercept form)

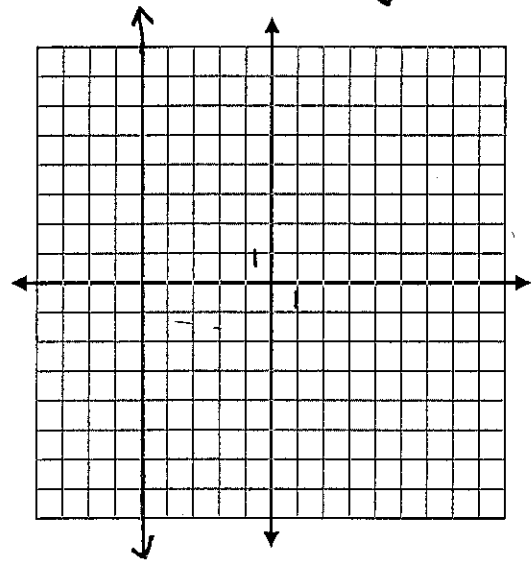
1.



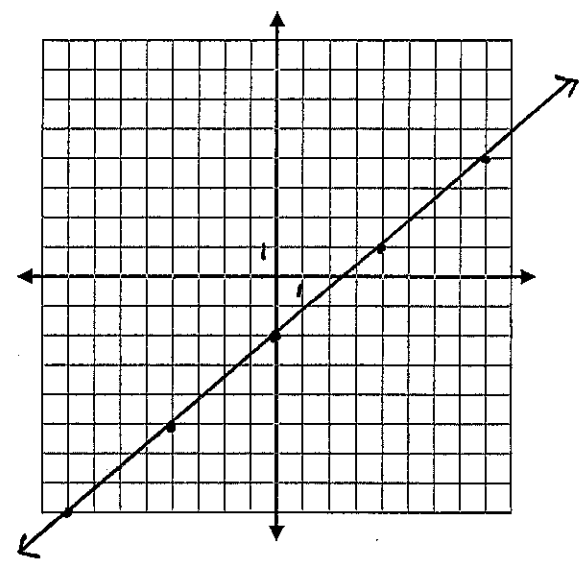
2.



3.



4.



5. $(5, -3)(2, 7)$

6. $(-1, 5)(-3, -4)$

7. $(-7, 1)(-7, 3)$

8. $(4, 5)(7, 5)$

Directions: Find the equation of the line that fits each description.

9. through $(3, -1)$ and parallel to $3y - 6x = 12$

10. through $(11, 9)$ and perpendicular to $2y - 4 = 7x$

11. through $(-3, 4)$ and perpendicular to $y = 9$

12. through $(-1, 6)$ and parallel to $x = -4$

13. through $(-1, 6)$ and perpendicular to $x = -4$

Directions: Evaluate the following:

$f(x) = x^2 - 3x$	$g(x) = x + 3 - 4$	$h(x) = -x^2 - x + 5$	$k(x) = \begin{cases} 2x + 3 & x < -7 \\ x - 1 & -7 \leq x < 3 \\ -2x + 4 & x \geq 3 \end{cases}$
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14. $f(7) =$

15. $h(-3) =$

16. $g(-17) =$

17. $f(x - 4) =$

18. $k(-7) =$

19. $k(3) =$

20. $k(-1) =$

21. $k(-9) =$

22. $h(x + 2) =$

Directions: Find the domain and range for each function.
(DO NOT use your calculator to find the domain!!!!)

23. $f(x) = -x^2 + 5$

24. $f(x) = 5x - 4$

25. $f(x) = \sqrt{x^2 - 4x - 12}$

26. $f(x) = \sqrt{x+7}$

27. $f(x) = \frac{1}{2x+3}$

28. $f(x) = \sqrt[3]{x-5}$

29. $f(x) = \frac{1}{x^2+8x-9}$

