Name: _____

Solve each equation:

1. $10 - 3(x + 4) = 13$

2. $\frac{x}{3} - 2 = \frac{7}{4}$

3. $-4(2a + 1) = -3(4a - 4)$

4. $4x + 6 = 6x - 4(x - 7)$

5. $w = \frac{b-a}{xy}$ solve for b

6. $4(g - h) = k$ solve for h

7. $|x + 3| = 15$

Solve each inequality and graph the solution set

8. $2x + 8 \geq 6x - 20$

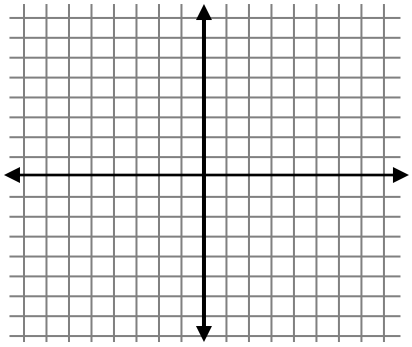
9. $2(x + 6) - 6x > 32$

10. $5z + 3 < -7$ or

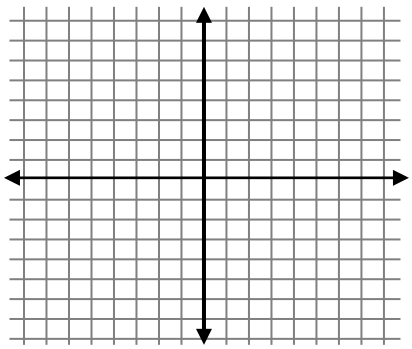
$-2z - 6 > -8$

Graph each line:

11. $y = \frac{-1}{3}x + 2$

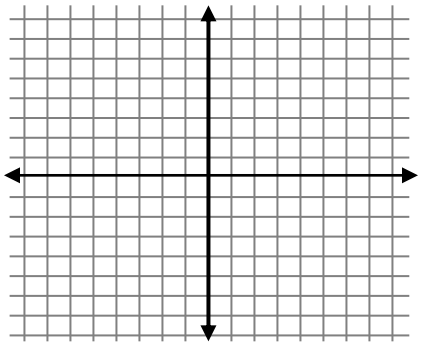


12. $y + 3 = 4(x - 2)$



13. $x - 4y = 8$

x-int = _____ y- int = _____



Find the equation of the line in slope intercept form through the given points

14. (3, 2) and (5, 10)

Find the equation of the line in point slope form through the given points

15. (-2, 5) and (3, -1)

Convert to standard form:

16. $y = -x + 3$

17. $y = -3x + 5$

a. Find a parallel line through (2, -3)

b. Find a perpendicular line through (2, -3)

18. {(-4, 8), (0, 5), (3, 8), (-1, -3)}

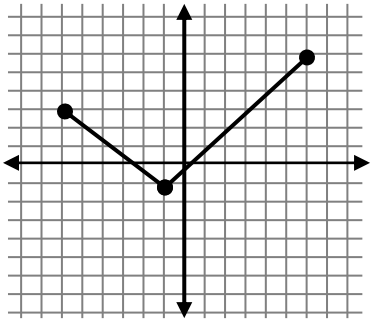
Function? (yes or no) _____

One-to-one? (yes or no) _____

Domain: _____

Range: _____

19.



Domain: _____

Range: _____

20. $f(x) = 2(x + 3) - 4$

Find $f(-8)$

Find a linear function for the table

21.

x	1	2	3	4
y	7	2	-3	-8

22. -11, -16, -21, -26, . . .

Explicit: $a_n =$ _____

Recursive: $a_1 =$ _____

$a_n =$ _____

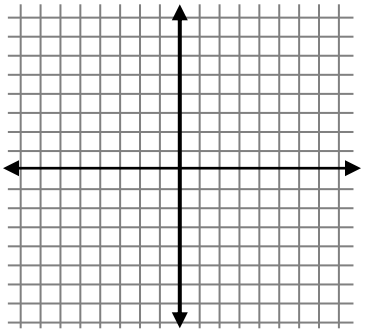
Find the indicated value in each arithmetic sequence:

23. -13, -7, -1, 5, . . .

Find $a_{21} =$

Solve by graphing

24 $x - 2y = 8$
$y = -2x + 1$



Solution: _____

Solve by Substitution

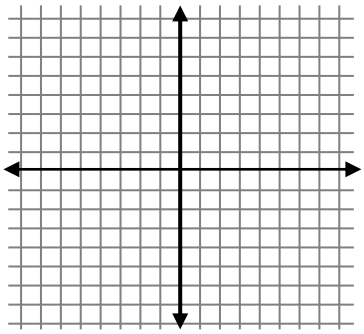
25. $7x + 2y = -7$
$y = 5x + 5$

Solve by Elimination

26. $2x - 7y = -2$
$6x - 3y = 30$

Graph solution

27. $2x + 5y < 10$



28. $y > \frac{3}{2}x - 4$

$3x + 4y < 12$