Name _____ **Hour** _____

Use the following coordinates for 1-5.
$(-3,-6)$ and $(3,-2)$

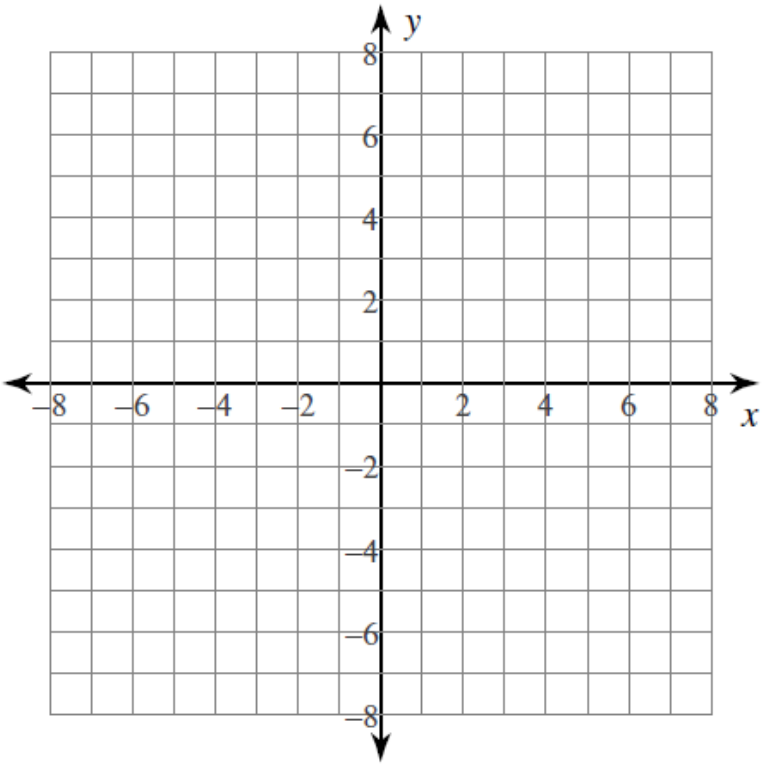
1. Plot the two points in the coordinate plane. Draw the line that contains the two points.

2. Find the slope of the line.

3. Find the *y*-intercept of the line.

4. Find the *x*-intercept of the line.

5. Write the equation of the line in slope-intercept form.



Use the following coordinates for 6-10.
$(1,-6)$ and $(-2,3)$

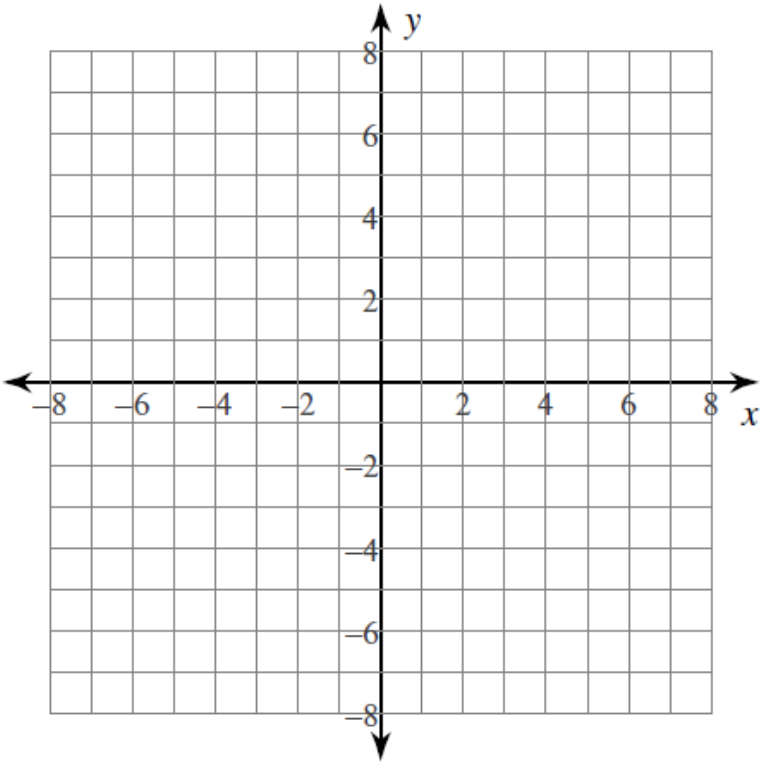
6. Plot the two points in the coordinate plane. Draw the line that contains the two points.

7. Find the slope of the line.

8. Find the *y*-intercept of the line.

9. Find the *x*-intercept of the line.

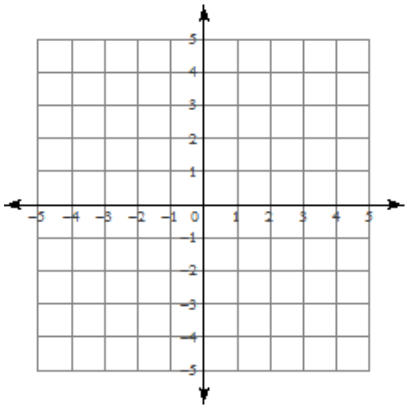
10. Write the equation of the line in slope-intercept form.



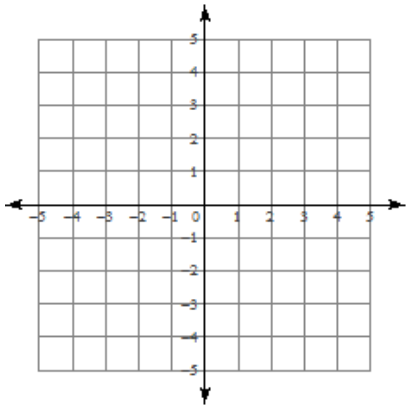
Algebra Review #2

Graph both of the given equations. Find the intersection of the lines.

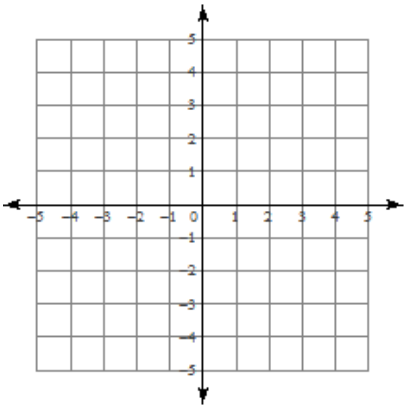
11. $y=-\frac{1}{4}x+2,\ \ y=-x-1$



12. $y=-2x-3,\ \ y=5x+4$



13. $y=\frac{3}{2}x-4,\ \ y=-1$



Solve each equation.

14. $7x+12+5x+7=9+10x+8$

15. $3(1-6x)-x=-130$

16. $-14+6x+4=2(-5+3x)$

17. $\frac{1}{2}(16+8x)=9x-7$

18. $4(6-x)=-12(x-2)$

19. $2(x+5)-3(-1-3x)=11x-1$

Simplify if possible.

20. $\sqrt{225}$

21. $\sqrt{72}$

22. $\sqrt{320}$

23. $\sqrt{126}$

24. $\sqrt{94}$

25. $\sqrt{243}$

26. $\sqrt{1000}$

27. $\sqrt{540}$