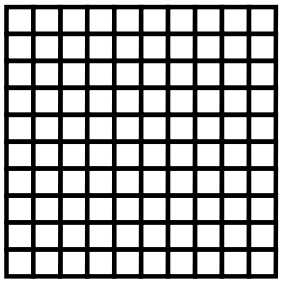
Chapter 5 Redo Requirement

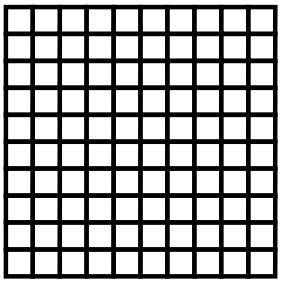
Make sure that you completely understand these problems, and have done the test corrections of your first attempt at Chapter 5 before retesting.

Graph using a table of values. Label the points.

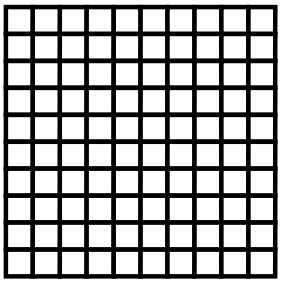
1. $4x+2y=8$



2. $4x-3y=12$

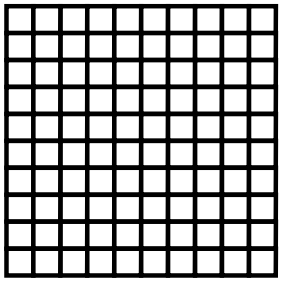


3. $6x-2y=6$

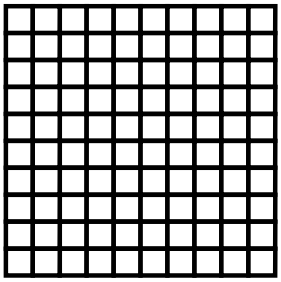


Graph using the intercept method. Label the points.

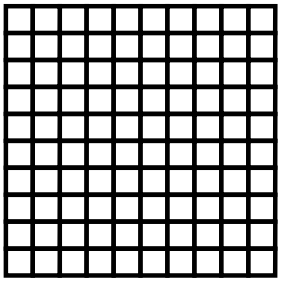
4. $7x-14y=-28$



5. $6x+12y=36$

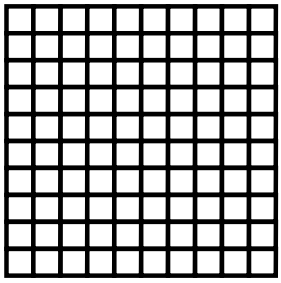


6. $x+2y=-4$

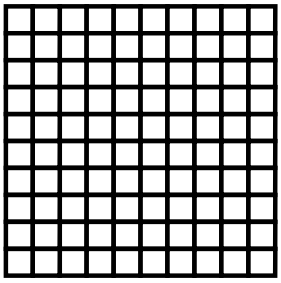


Graph using the slope-intercept method. Label the points.

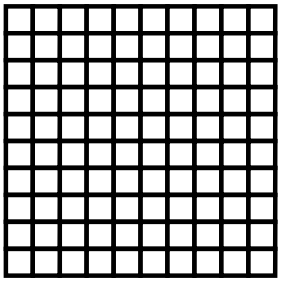
7. $f(x)=\frac{3}{4}x-2$



8. $g(x)=\frac{-3}{2}x+4$

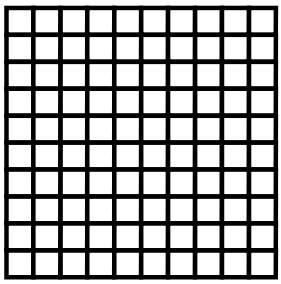


9. $y=-x+3$

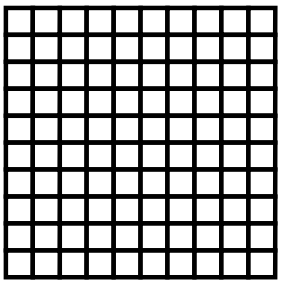


Graph.

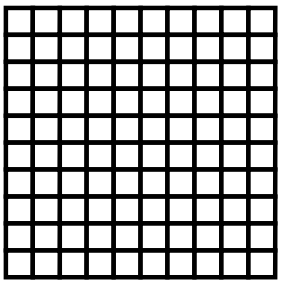
10. $8x - 5 = 19$



11. $2(2x - 1) = -10$



12. $-3y + 12 = 0$



Determine the slope of the line containing the two points.

13. (3, 5) and (10, -4)
14. (-6, -4) and (-7, -9)
15. (5.1, -14.8) and (5.1, 3.4)
16. (-4.2, 7.3) and (4.2, 7.3)

Determine whether the graphs of each pair of equations are coinciding, parallel, only intersecting, *or* both intersecting and perpendicular *lines.*

17. $\begin{aligned} 2x &= y + 7 \\ y - 2x &= 8 \end{aligned}$

18. $\begin{aligned} 2y - x &= 2 \\ y + 2x &= 4 \end{aligned}$

19. $\begin{aligned} 2y - 3x &= 1 \\ -2y &= 3x + 2 \end{aligned}$

20. $\begin{aligned} 5 &= 4x + y \\ 2y &= 8x + 10 \end{aligned}$

Determine the slope and the y-intercept of the graph of the linear equation.

21. $5x + 4y = 16$
22. $-2x - 9y = 18$
23. $2x - 5y = -8$
24. $x - y = 5$

Write the equation of the line that satisfies the following conditions.

25. Passes through (0, 7) and has a slope of –2.
26. Passes through (-3, -5) and (-4, 12).
27. Has a slope of 3 and contains the point (1, -2).
28. Is perpendicular to $4y - x = 20$ and contains the point (2, -3).
29. Contains the point (2, -1) and is parallel to $8x = 7y - 24$.

Write the linear equation that describes the problems below. Graph the equation, labeling the axes and the scale. Use the graph to determine the specific information of the problem.

30. The population of Hometown is 20,000 people, plus a growth of 400 people per year since 1990. How many people lived there 8 years later?
31. The cost of renting a Chrysler is $35 for a day, plus a cost of $.10 per mile. Graph the cost function and find the rental cost if you drive 250 miles.
32. In a 55mph speed zone, if you receive a ticket for traveling 70mph, your fine is $110. If you are traveling 74 mph in the same zone, your fine is $134. What is the fine if you are traveling 67mph?