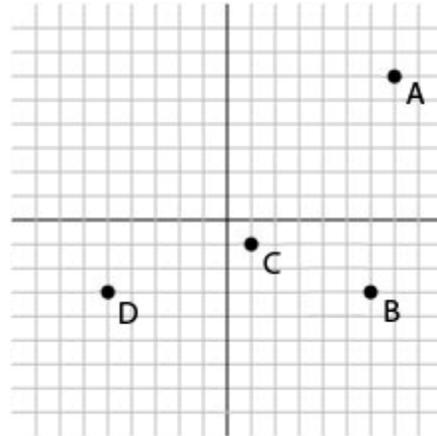


Section 4.5 – Chapter Summary

Problem Set 1

1. Give the coordinates of the points in the graph on the right.
2. List the coordinates that each of the points is in.



Graph the coordinates below. You can do this on graph paper or a piece of regular paper where you've drawn a pair of axes.

- | | |
|------------|------------|
| 3. (2, 3) | 4. (0, 0) |
| 5. (6, 4) | 6. (1, 4) |
| 7. (-3, 2) | 8. (-4, 1) |

Graph the following relations. Use whatever scale you think is appropriate.

9. $\{(2, -2), (0, 4), (-4, -2)\}$
10. $\{(0, 1), (-1, 4), (4, 1), (-1, 3)\}$
11. $f: x \rightarrow 2x + 1, D = \{-1, 0, 2\}$
12. $f: x \rightarrow x \cdot x - 4 + x, D = \{-2, -1, 1, 2\}$
13. Which of the relations in exercises 9-12 are functions?

Solve the following equations for y .

- | | | |
|------------------------|-----------------------------|---------------------------|
| 14. $3y - 2x = 0$ | 15. $\frac{-x+y}{2} = -x+1$ | 16. $-x + 3y = -2(x - 2)$ |
| 17. $\frac{2y}{x} = 3$ | 18. $-2y + 3x + 1 = x + 2y$ | 19. $-2x = y + 3x$ |

Answer the following questions.

20. Two cars are heading for Miami on the Florida Turnpike. The difference between their speeds is 15 mph. If both cars travel for 3 hours and the faster car travels 180 miles, how far did the other car travel?
21. Two runners start down a 40 meter track at the same time. The difference between their speeds is .55 miles per hour. If the slower runner takes five seconds to reach the end of the lane, how long does it take the faster runner?