

Name _____

Section 4.1

Algebra II: Slope Intercept Form (PP)

Essential Questions:

How do I plot points on a graph?

Use the X and Y axis.

Notes

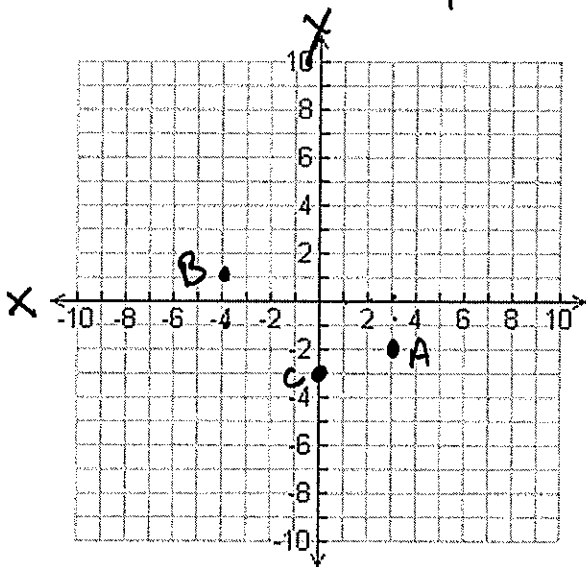
The horizontal axis - from left to right, straight across - X axis

The vertical axis up and down - Y axis - (2nd number in coordinate pair)

Plot the points $A = (3, -2)$

label points w/ a capital letter.

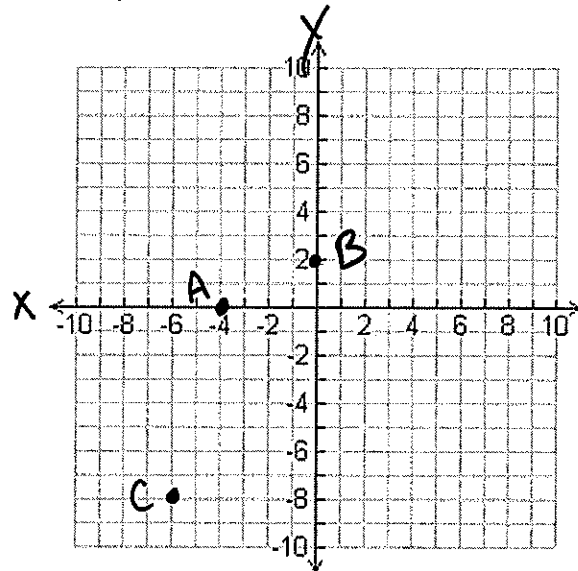
(pair)



B (-4, 1)

C (0, -3)

X Y



A (-4, 0)

B (0, 2)

C (-6, -8)

Classroom Practice

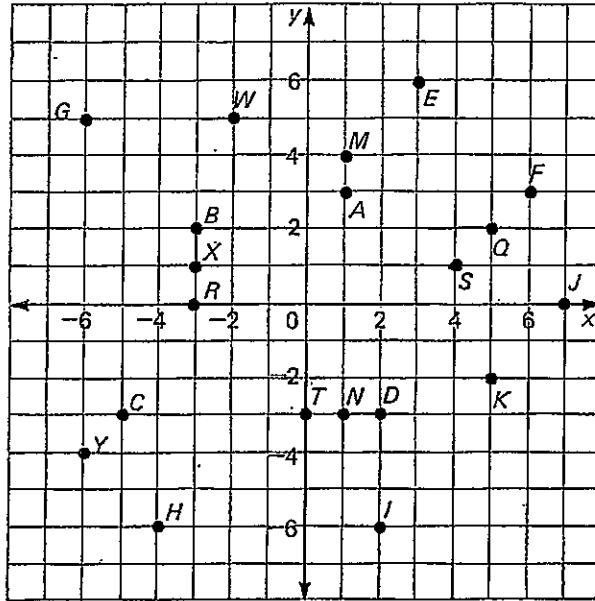
Give the coordinates of each point.

SAMPLE Point *A* has coordinates (1, 3).

- | | | |
|-------------|-------------|-------------|
| 1. <i>B</i> | 2. <i>C</i> | 3. <i>D</i> |
| 4. <i>E</i> | 5. <i>F</i> | 6. <i>G</i> |
| 7. <i>H</i> | 8. <i>I</i> | 9. <i>J</i> |

Name the point by its letter.

- | | |
|--------------|-------------|
| 10. (4, 1) | 11. (1, 4) |
| 12. (5, -2) | 13. (-2, 5) |
| 14. (-3, 0) | 15. (0, -3) |
| 16. (-3, 1) | 17. (1, -3) |
| 18. (-6, -4) | 19. (5, 2) |



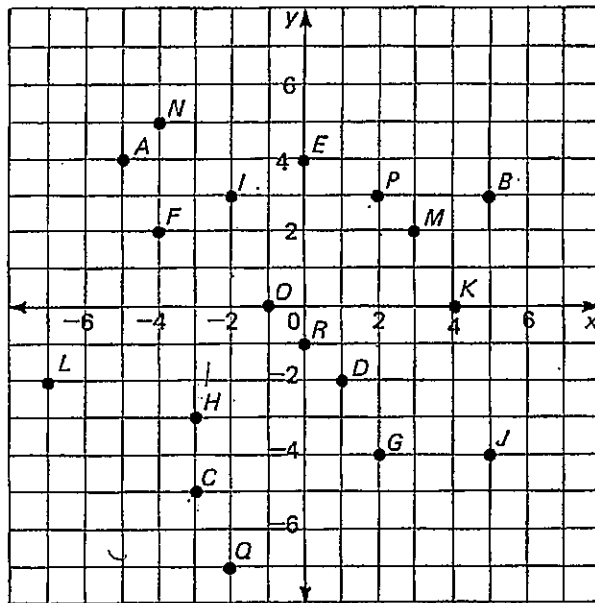
Written Exercises

Give the coordinates of each point.

- A**
- | | | |
|-------------|-------------|-------------|
| 1. <i>A</i> | 2. <i>B</i> | 3. <i>C</i> |
| 4. <i>D</i> | 5. <i>E</i> | 6. <i>F</i> |
| 7. <i>G</i> | 8. <i>H</i> | 9. <i>I</i> |

Name the point by its letter.

- | | |
|--------------|--------------|
| 10. (2, 3) | 11. (3, 2) |
| 12. (-1, 0) | 13. (0, -1) |
| 14. (5, -4) | 15. (-4, 5) |
| 16. (-7, -2) | 17. (-2, -7) |
| 18. (4, 0) | |



In each of Exercises 25–28 plot the points in order. Connect each point to the next one in the list by drawing a line.

- | | |
|---|--|
| 25. (4, 2); (4, -4); (-5, -4); (-5, 2); (4, 2) | You should get a rectangle. |
| 26. (5, 0); (0, 5); (-5, 0); (0, -5); (5, 0) | You should get a square. |
| 27. (3, -2); (6, 8); (-4, 6); (-7, -4); (3, -2) | This figure is called a parallelogram. |

- B**
28. (-3, 0); (0, 3); (3, 3); (4, 0); (6, 0); (7, -1); (7, -2); (6, -2); (5, -3); (4, -3); (3, -2); (-1, -2); (-2, -3); (-3, -3); (-4, -2); (-5, -2); (-5, -1); (-4, 0); (-3, 0)

