Section: \_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_

USE MIDPOINT and DISTANCE FORMULA

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| Vocabulary | Definition | Example |
| MIDPOINT | The point that divides the segment into two congruent segments. |  |
| SEGMENT BISECTOR | A point, ray, line, line segment, or plane that intersects the segment at its midpoint. |  |
| MIDPOINT FORMULA | The coordinates of a midpoint of a segment are the averages of the x-coordinates and the y-coordinates of the endpoints.If A(x1 , y1) and B(x2 , y2) are points on a coordinate plane, then the midpoint M has coordinates  M$\left(\frac{ \_{ + } }{} , \frac{ \_{ + } }{}\right)$ |   |
| DISTANCE FORMULA | If A(x1 , y1) and B(x2 , y2) are points in a coordinate plane, then the distance between A and B is AB = $\sqrt{(\\_\\_\\_\\_\\_-\\_\\_\\_\\_\\_)^{2}+ (\\_\\_\\_\\_\\_-\\_\\_\\_\\_\\_)^{2} }$ |  |

Examples: