Coordinate Geometry Proofs

Formulas

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Distance Formula

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope Formula

$$(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Midpoint Formula

Remember to draw and label a graph

Use a formula