

## Calculating the Midpoint of Two Points

Geometry: Madhu / Randall

Problem: Find the midpoint between the following points, **(-3, 5)** and **(7, -3)**

Identify the following:  $x_1 =$   $x_2 =$   $y_1 =$   $y_2 =$

Plug into the formula. Midpoint =  $\left( \frac{\underline{\quad} + \underline{\quad}}{\underline{\quad}}, \frac{\underline{\quad} + \underline{\quad}}{\underline{\quad}} \right)$

Simplify the numerator. Midpoint =  $\left( \frac{\underline{\quad}}{\underline{\quad}}, \frac{\underline{\quad}}{\underline{\quad}} \right)$

Simplify the numerator. Midpoint =  $(\underline{\quad}, \underline{\quad})$

Problem: Find the midpoint between the following points, **(-5, 6)** and **(3, -4)**

Identify the following:  $x_1 =$   $x_2 =$   $y_1 =$   $y_2 =$

Plug into the formula. Midpoint =  $\left( \frac{\underline{\quad} + \underline{\quad}}{\underline{\quad}}, \frac{\underline{\quad} + \underline{\quad}}{\underline{\quad}} \right)$

Simplify the numerator. Midpoint =  $\left( \frac{\underline{\quad}}{\underline{\quad}}, \frac{\underline{\quad}}{\underline{\quad}} \right)$

Simplify the numerator. Midpoint =  $(\underline{\quad}, \underline{\quad})$