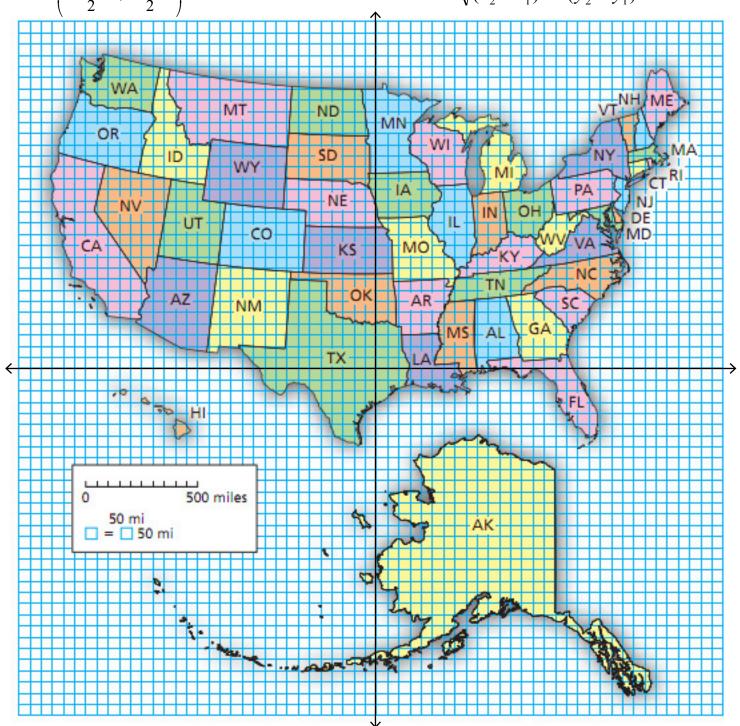
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## Distance and Midpoint Distance Formula: Distance Formula:

Midpoint Formula:

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

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



You are planning a trip across the US, you have to travel through at least 10 states.

- 1. Find the total distance between the Start and Finish that you will travel.
- 2. Split your trip up into 5 days, find the distance you will travel each day (try to pick locations you would want to visit).
- 3. You MUST make a pit stop every day for gas and food, you have to stop exactly half-way every day, find your stopping states (aka your midpoint)!