

## Coordinate Geometry Formula - Review

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1} \quad \text{length} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \quad MP = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

1. Find the slope and length and midpoint of the following line segments:
  - a. AB given A (3, 4) and B (5, 8)
  - b. CD given C (2, 1) and D (-4, 4)
  - c. EF given E (2, 3) and F (2, 8)
  - d. CT given C = (4, 3) and T = (-3, -4)
  - e. DG given D = (5, 8) and G = (-7, 6)