

1. Find the coordinates of the midpoint,  $M$ , of the points  $R(7, 10)$  and  $T(-27, 14)$ .  
( $\square, \square$ )
2. The midpoint of  $\overline{DH}$  is  $U$ ; with  $U(7, -4)$  and  $H(-3, 6)$ . Find the coordinates of  $D$ .  
( $\square, \square$ )
3. Find the distance between points  $A$  and  $B$  for  $A(3, 8)$  and  $B(15, 3)$ .

**Distance Formula**

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

**Midpoint Formula**

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