**Working with the Midpoint Formula:**

Example of a midpoint using coordinate geometry, given line AB:

The midpoint of AB is point M. To find the coordinates of point M use the formula below:

The Midpoint Formula: \( \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) \)

Examples:
1) Find the coordinates of the midpoint of the segment whose coordinates are (2,3) and (4,-3).

2) Midpoint M of AB has coordinate (6,5). If the coordinates of A are 4,1, what are the coordinates of B?

3) Find the midpoints of the sides of a quadrilateral with vertices: A(0,0), B(10,0), C(7,5, and D(3,5).

Find the midpoint of the given points:
1) U(-2,-6) & V(4,8)  
2) W(-11,4) & X(8,-1)
3) \( Y(-3, -6) \) & \( Z(12, 13) \) 
4) \( A(-2, -6) \) & \( B(-8, -2) \)

5) \( F(2, 0) \) & \( E(-5, -1) \) 
6) \( D(4, 5) \) & \( C(9, -18) \)

7) \( G(-13, -6) \) & \( H(-5, 0) \) 
8) \( I(0, 0) \) & \( J(6, -8) \)

9) \( N(10.6, -12.8) \) & \( M(6, -7.8) \) 
10) \( L(2.7, -6) \) & \( K(6.3, 8.9) \)