1. Find the midpoint of A(2, 0) and B(-4, 9).

2. When M(3, 5) is the midpoint of AB, where A(1, 9). What is the coordinates of B?

3. When M(a, 4) is the midpoint of AB, where A(2, 3 - a). What is the coordinates of B?

4. C is a point between A and B of line segment AB, where A(3, 10) and B(10, -11). If AC : CB = 3 : 4, find the coordinates of C.