

Midpoint of a Line Segment

1. Points $A(-4, 7)$ and $B(10, -1)$ are endpoints of a line segment.

Determine the midpoint, M , of \overline{AB} , also known as M_{AB} .

2. A line segment has one endpoint $P(6, -3)$ and midpoint $M(2, 5)$.

Determine the coordinates of the other endpoint, Q .

3. The midpoint of line segment \overline{RS} is $M(-1, 4)$.

Determine the co-ordinates of the other endpoint, S .

