

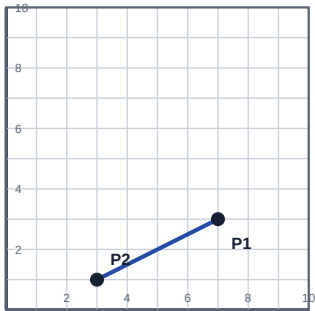
Midpoint Formula

Use the printed coordinates of P1 and P2, calculate the exact midpoint, and plot M on the same graph.

1. P1 = (7, 3)

P2 = (3, 1)

Use the printed endpoints. Calculate the midpoint, then plot M.

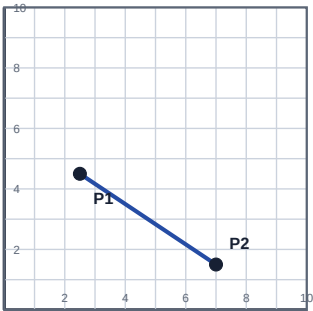


Midpoint calculation

2. P1 = (5/2, 9/2)

P2 = (7, 3/2)

Use the printed endpoints. Calculate the midpoint, then plot M.

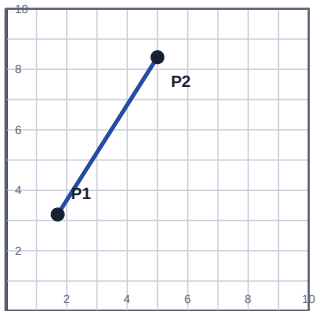


Midpoint calculation

3. P1 = (1.7, 3.2)

P2 = (5.0, 8.4)

Use the printed endpoints. Calculate the midpoint, then plot M.

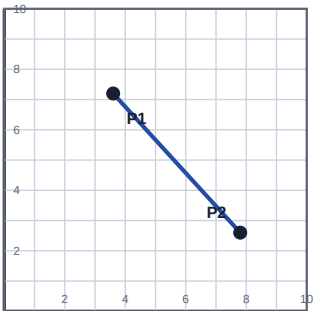


Midpoint calculation

4. P1 = (3.6, 7.2)

P2 = (7.8, 2.6)

Use the printed endpoints. Calculate the midpoint, then plot M.



Midpoint calculation

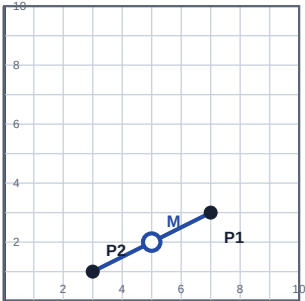
Midpoint Formula

Worked Answer Key

Use the printed coordinates of P1 and P2, calculate the exact midpoint, and plot M on the same graph.

1. P1 = (7, 3)

P2 = (3, 1)



Exact calculation

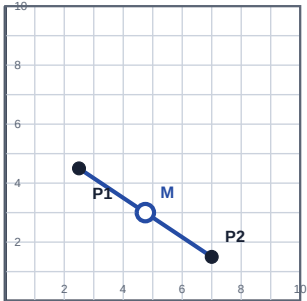
$x: (7 + 3) / 2 = 5$

$y: (3 + 1) / 2 = 2$

$M = (5, 2)$

2. P1 = (5/2, 9/2)

P2 = (7, 3/2)



Exact calculation

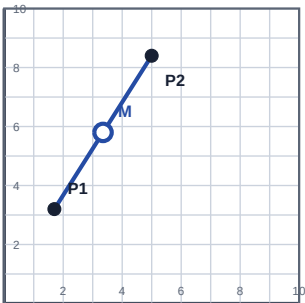
$x: (5/2 + 7) / 2 = 19/4$

$y: (9/2 + 3/2) / 2 = 3$

$M = (19/4, 3)$

3. P1 = (1.7, 3.2)

P2 = (5.0, 8.4)



Exact calculation

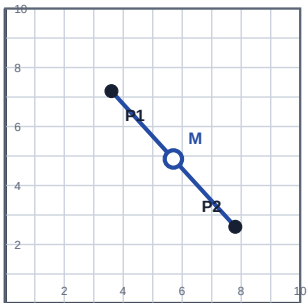
$x: (1.7 + 5.0) / 2 = 3.35$

$y: (3.2 + 8.4) / 2 = 5.8$

$M = (3.35, 5.8)$

4. P1 = (3.6, 7.2)

P2 = (7.8, 2.6)



Exact calculation

$x: (3.6 + 7.8) / 2 = 5.7$

$y: (7.2 + 2.6) / 2 = 4.9$

$M = (5.7, 4.9)$