



Determine an endpoint given the midpoint and another endpoint

1

How would you find the mid-point of segment AB?

Point A : (4, 9)

Point B : (7, 6)

A

$$\left(\frac{9+6}{2}, \frac{4+7}{2}\right)$$

B

$$\left(\frac{4+7}{2}, \frac{9+6}{2}\right)$$

2

Find the mid-point of segment AB

Point A : (1, 10)

Point B : (4, 7)

A

$$(2.5, 8.5)$$

B

$$(2, 3.5)$$

C

$$(1.5, 4)$$

3

Is the mid-point of segment AB equal to (7, 5)

Point A : (5, 1)

Point B : (7, 5)

A

No

B

Yes

4

Find the other endpoint B of segment AB given endpoint A and the midpoint

Endpoint A : (5, 1)

Midpoint of AB : (5, 2)

A

$$(5, -7)$$

B

$$(0, 1)$$

C

$$(-3, 3)$$

D

$$(7, 2)$$

E

$$(11, 3)$$

F

$$(5, 3)$$

5

Point A is (5, 2) and the midpoint of segment AB is (5, 6). Is point B equal to (5, 10)

Endpoint A : (5, 2)

Midpoint of AB : (5, 6)

A

No

B

Yes

6

Find the other endpoint B of segment AB given endpoint A and the midpoint

Endpoint A : (6, 1)

Midpoint of AB : (8, 3)

A

$$(10, 9)$$

B

$$(7, 0)$$

C

$$(1, 5)$$

D

$$(0, 5)$$

E

$$(10, 5)$$

F

$$(12, 13)$$

7

Point A is (5, 5) and the midpoint of segment AB is (6, 3). Is point B equal to (7, 1)

Endpoint A : (5, 5)

Midpoint of AB : (6, 3)

A

Yes

B

No

8

Find the other endpoint B of segment AB given endpoint A and the midpoint

Endpoint A : (2, 2)

Midpoint of AB : (3, 3)

A

$$(4, -2)$$

B

$$(4, 4)$$

C

$$(4, 10)$$

D

$$(1, 1)$$

E

$$(6, 3)$$

F

$$(5, 4)$$

**Determine an endpoint given the midpoint and another endpoint****9**

Point A is (3, 8) and the midpoint of segment AB is (5, 6). Is point B equal to (7, -3)

Endpoint A : (3, 8)

Midpoint of AB : (5, 6)

A

Yes

B

No

10

Find the other endpoint B of segment AB given endpoint A and the midpoint

Endpoint A : (3, 2)

Midpoint of AB : (4, 4)

A

(13, 6)

B

(5, 1)

C

(7, 12)

D

(5, 6)

E

(10, 6)

F

(1, 2)

11

Point A is (6, 7) and the midpoint of segment AB is (6, 5). Is point B equal to (6, 5)

Endpoint A : (6, 7)

Midpoint of AB : (6, 5)

A

No

B

Yes

12

Find the other endpoint B of segment AB given endpoint A and the midpoint

Endpoint A : (3, 3)

Midpoint of AB : (3, 2)

A

(3, 1)

B

(0, -1)

C

(-1, 1)

D

(-2, 1)

E

(-4, 1)

F

(3, -8)