



Determine an endpoint from a midpoint and another endpoint

1

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

Point A : (3,1)

Point B : (4,4)

A

$$\left(\frac{1+4}{2}, \frac{3+4}{2}\right)$$

B

$$\left(\frac{3+4}{2}, \frac{1+4}{2}\right)$$

2

Find the mid-point of segment AB

Point A : (1,1)

Point B : (2,6)

A

$$(2, 4)$$

B

$$(1.5, 3.5)$$

C

$$(1.5, 2.5)$$

3

Is the mid-point of segment AB equal to (4.5, 3.5)

Point A : (3,10)

Point B : (6,4)

A

Yes

B

No

4

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

Endpoint A : (4,10)

Midpoint of AB : (4,8)

A

$$(0, -2)$$

B

$$(4, 11)$$

C

$$(4, 6)$$

D

$$(4, 14)$$

E

$$(4, 1)$$

F

$$(4, 15)$$

5

Point A is (5, 3) and the midpoint of segment AB is (6, 4). Is point B equal to (7, 5)

Endpoint A : (5,3)

Midpoint of AB : (6,4)

A

No

B

Yes

6

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

Endpoint A : (6,3)

Midpoint of AB : (7,3)

A

$$(8, 1)$$

B

$$(1, 0)$$

C

$$(5, 3)$$

D

$$(6, 3)$$

E

$$(15, 3)$$

F

$$(8, 3)$$

7

Point A is (5, 4) and the midpoint of segment AB is (6, 7). Is point B equal to (1, 3)

Endpoint A : (5,4)

Midpoint of AB : (6,7)

A

No

B

Yes

8

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

Endpoint A : (1,7)

Midpoint of AB : (1,6)

A

$$(1, 1)$$

B

$$(1, 5)$$

C

$$(0, -1)$$

D

$$(1, 8)$$

E

$$(9, 4)$$

F

$$(0, 5)$$



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9

Point A is (2, 5) and the midpoint of segment AB is (4, 3). Is point B equal to (6, 1)

Endpoint A : (2, 5)

Midpoint of AB : (4, 3)

A

Yes

B

No

10

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

Endpoint A : (6, 10)

Midpoint of AB : (8, 10)

A

(13, 8)

B

(2, 0)

C

(6, 8)

D

(10, 10)

E

(10, 19)

F

(3, 10)

11

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

12

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, 5)

B

(0, 5)

C

(1, 5)

D

(7, 0)

E

(10, 9)

F

(12, 13)