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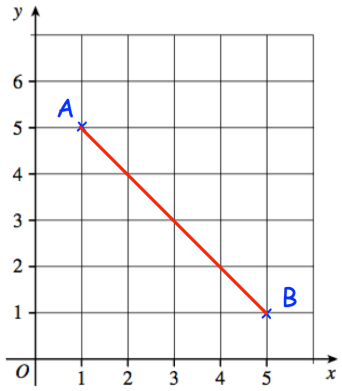
Midpoint Between Two Coordinates

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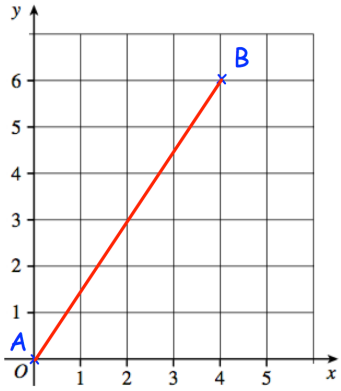
Workout

Question 1: Find the coordinates of the midpoints of the following line segments.

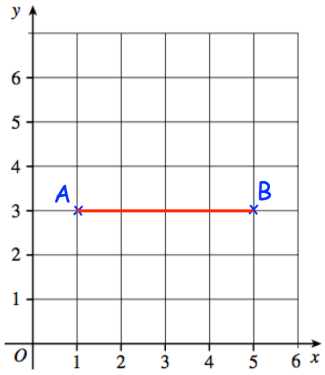
(a)



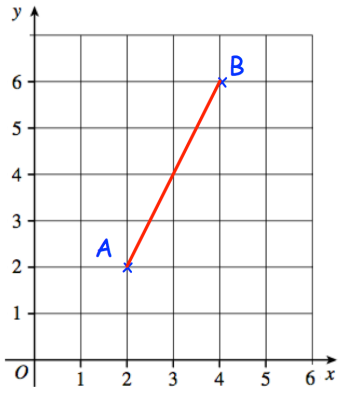
(b)



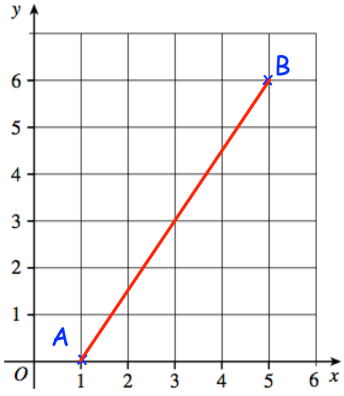
(c)



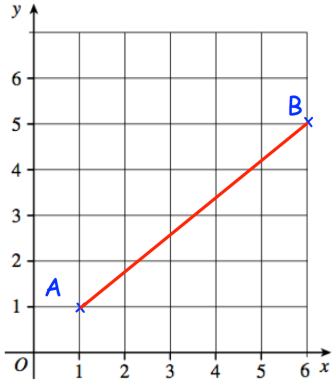
(d)



(e)

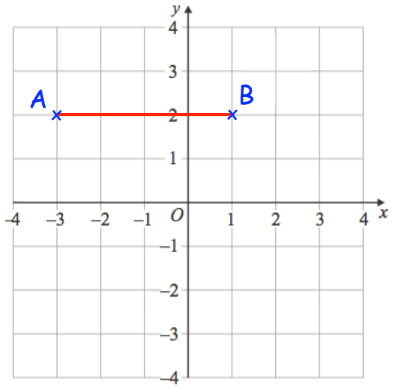


(f)

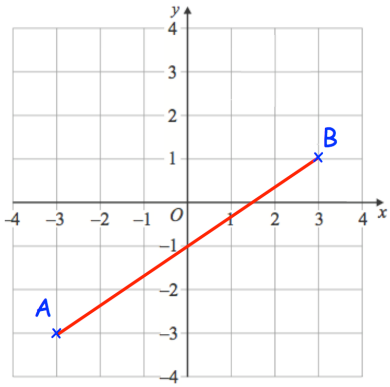


Question 2: Find the coordinates of the midpoints of the following line segments.

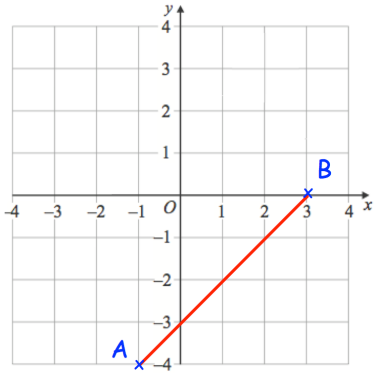
(a)



(b)



(c)

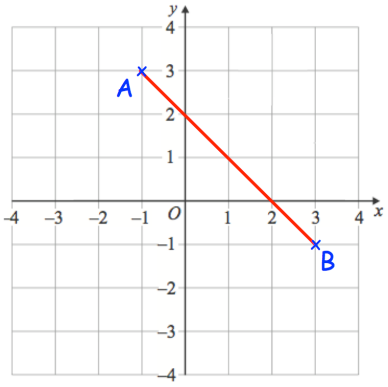


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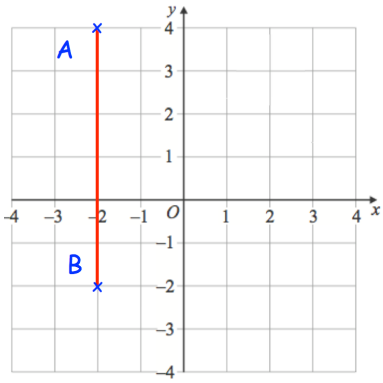
Midpoint Between Two Coordinates

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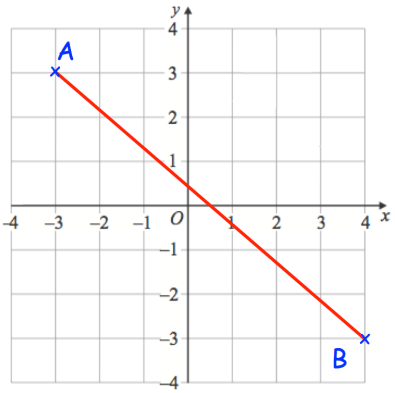
(d)



(e)



(f)



Question 3: Find the midpoint of the line joining these pairs of points

(a) (2, 4) and (6, 10)

(b) (1, 4) and (9, 12)

(c) (0, 7) and (6, 1)

(d) (−5, 2) and (5, −4)

(e) (−3, 9) and (7, −1)

(f) (0, −4) and (9, 0)

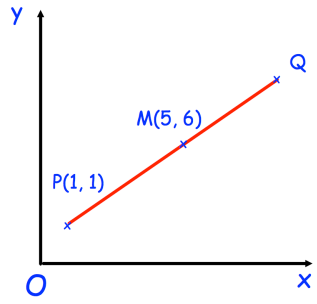
(g) (−10, −6) and (−2, 8)

(h) (0, 5) and (−11, −10)

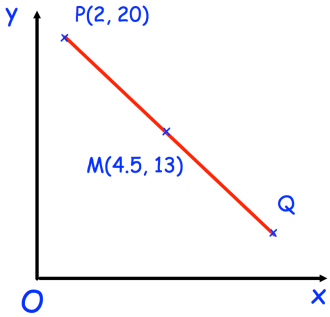
(i) (9, 8) and (4, 8)

Question 4: M is the midpoint of PQ in each diagram below.
Find the coordinates of Q in each diagram.

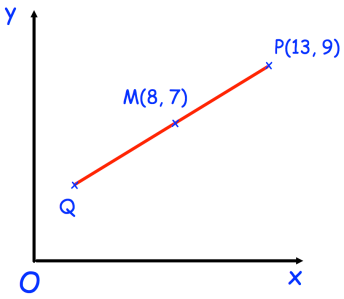
(a)



(b)

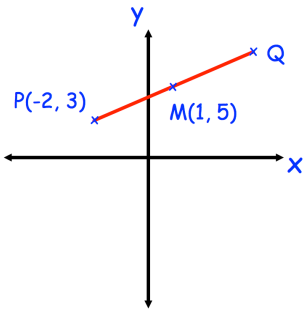


(c)

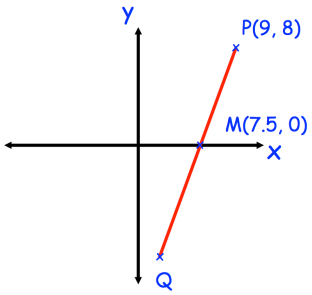


Question 5: M is the midpoint of PQ in each diagram below.
Find the coordinates of Q in each diagram.

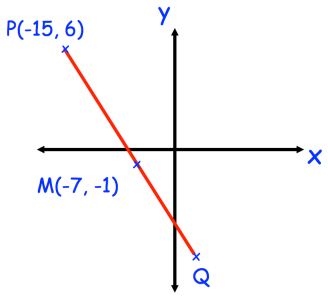
(a)



(b)



(c)



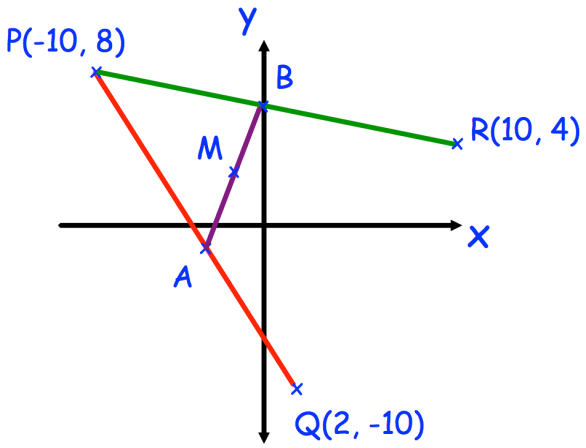
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Midpoint Between Two Coordinates

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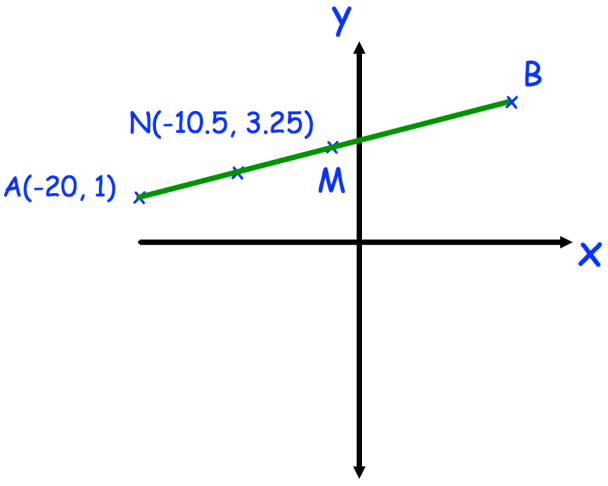
Apply

Question 1: A is the midpoint of the line PQ.
B is the midpoint of the line PR.
M is the midpoint of the line AB.
Find the coordinates of the point M



Question 2: M is the midpoint of the line AB.
The coordinates of the point M are (7, 2)
The coordinates of the point B are (11, 8)
The coordinates of the point C are (7, −4)
Find the area of triangle ACM.

Question 3: M is the midpoint of AB.
N is the midpoint of AM.
Find the coordinates of the point B.



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