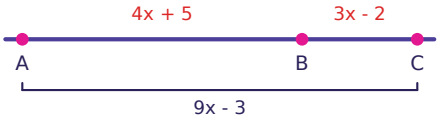
Segment Addition & Midpoints · 1

B is between A and C. AB = 4x + 5, BC = 3x - 2, and AC = 9x - 3. Find AB.



Segment Addition & Midpoints · 2

M is the midpoint of AB. AM = 3x + 8 and MB = 6x - 13. Find AB.



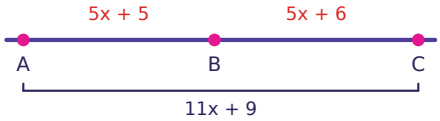
Segment Addition & Midpoints · 3

On a number line, A is at -3 and B is at 19. Find the coordinate of the midpoint M of AB.



Segment Addition & Midpoints · 4

B is between A and C. AB = 5x + 5, BC = 5x + 6, and AC = 11x + 9. Find AC.



Segment Addition & Midpoints · 5

M is the midpoint of AB. AM = 3x - 3 and MB = 5x - 11. Find AB.



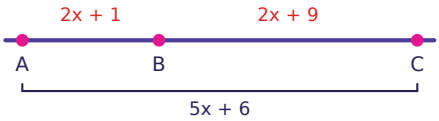
Segment Addition & Midpoints · 6

On a number line, A is at -3 and B is at -15. Point P lies on AB and is $\frac{1}{4}$ of the way from A to B. Find the coordinate of P.



Segment Addition & Midpoints · 7

B is between A and C. AB = 2x + 1, BC = 2x + 9, and AC = 5x + 6. Find AC.



Segment Addition & Midpoints · 8

M is the midpoint of AB. AM = 4x + 1 and MB = x + 13. Find AB.



Segment Addition & Midpoints · 2

ANSWER

58

Segment Addition & Midpoints · 1

ANSWER

17

Segment Addition & Midpoints · 4

ANSWER

31

Segment Addition & Midpoints · 3

ANSWER

8

Segment Addition & Midpoints · 6

ANSWER

-6

Segment Addition & Midpoints · 5

ANSWER

18

Segment Addition & Midpoints · 8

ANSWER

34

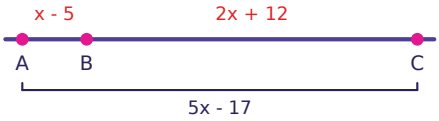
Segment Addition & Midpoints · 7

ANSWER

26

Segment Addition & Midpoints · 9

B is between A and C. AB = x - 5, BC = 2x + 12, and AC = 5x - 17. Find AC.



Segment Addition & Midpoints · 10

M is the midpoint of AB. AM = 4x - 5 and MB = 5x - 7. Find AB.



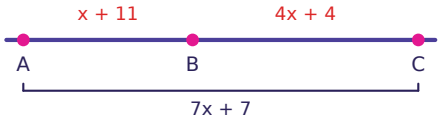
Segment Addition & Midpoints · 11

On a number line, A is at 15 and B is at 35. Point P lies on AB and is $\frac{1}{5}$ of the way from A to B. Find the coordinate of P.



Segment Addition & Midpoints · 12

B is between A and C. AB = x + 11, BC = 4x + 4, and AC = 7x + 7. Find BC.



Segment Addition & Midpoints · 13

M is the midpoint of AB. AM = 4x + 5 and MB = x + 11. Find AB.



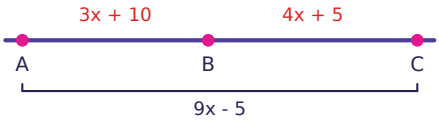
Segment Addition & Midpoints · 14

On a number line, A is at -17 and B is at -25. Point P lies on AB and is $\frac{1}{4}$ of the way from A to B. Find the coordinate of P.



Segment Addition & Midpoints · 15

B is between A and C. AB = 3x + 10, BC = 4x + 5, and AC = 9x - 5. Find AB.



Segment Addition & Midpoints · 16

M is the midpoint of AB. AM = 3x + 9 and MB = 5x - 15. Find AB.



Segment Addition & Midpoints · 10

ANSWER

6

Segment Addition & Midpoints · 9

ANSWER

43

Segment Addition & Midpoints · 12

ANSWER

20

Segment Addition & Midpoints · 11

ANSWER

19

Segment Addition & Midpoints · 14

ANSWER

-19

Segment Addition & Midpoints · 13

ANSWER

26

Segment Addition & Midpoints · 16

ANSWER

90

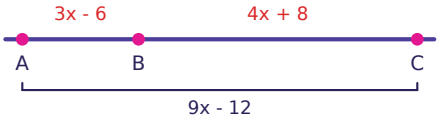
Segment Addition & Midpoints · 15

ANSWER

40

Segment Addition & Midpoints · 17

B is between A and C. AB = 3x - 6, BC = 4x + 8, and AC = 9x - 12. Find AC.



Segment Addition & Midpoints · 18

M is the midpoint of AB. AM = 3x and MB = x + 4. Find AB.



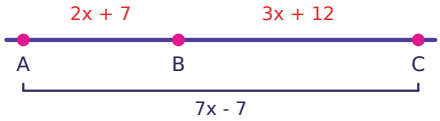
Segment Addition & Midpoints · 19

On a number line, A is at 20 and B is at 14. Point P lies on AB and is $\frac{1}{3}$ of the way from A to B. Find the coordinate of P.



Segment Addition & Midpoints · 20

B is between A and C. AB = 2x + 7, BC = 3x + 12, and AC = 7x - 7. Find AC.



Segment Addition & Midpoints · 21

M is the midpoint of AB. AM = 4x + 11 and MB = 5x + 2. Find AB.



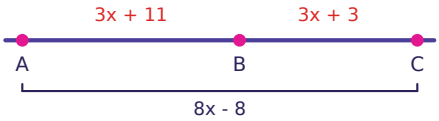
Segment Addition & Midpoints · 22

On a number line, A is at -15 and B is at -5. Point P lies on AB and is $\frac{1}{5}$ of the way from A to B. Find the coordinate of P.



Segment Addition & Midpoints · 23

B is between A and C. AB = 3x + 11, BC = 3x + 3, and AC = 8x - 8. Find BC.



Segment Addition & Midpoints · 24

M is the midpoint of AB. AM = 3x + 2 and MB = 2x + 5. Find AB.



Segment Addition & Midpoints · 18

ANSWER

12

Segment Addition & Midpoints · 17

ANSWER

51

Segment Addition & Midpoints · 20

ANSWER

84

Segment Addition & Midpoints · 19

ANSWER

18

Segment Addition & Midpoints · 22

ANSWER

-13

Segment Addition & Midpoints · 21

ANSWER

94

Segment Addition & Midpoints · 24

ANSWER

22

Segment Addition & Midpoints · 23

ANSWER

36