

Name:
Grade:

Date:

Segment Addition Postulate. Solve x

1) $BC = 6$, $AD = 3x - 1$, $CD = 2x - 10$,
and $AB = 11$. Find x .

2) $AC = 5$, $AB = 2x - 11$, $BD = 2x + 4$,
and $CD = 12$. Find x .

3) $AC = 8$, $AB = 2x + 26$, $BD = x + 21$,
and $CD = 9$. Find x .

4) Find x if $AC = x + 18$, $BD = 15$,
 $CD = x + 8$, and $AB = 9$.

5) $CD = 2x - 4$, $AD = 5x - 3$, $BC = 11$,
and $AB = 5$. Find x .

6) $BC = x - 4$, $AB = 7$, $AD = 2x + 4$,
and $CD = 11$. Find x .

7) $AD = 19$, $AB = 5$, $BC = x + 14$,
and $CD = x + 4$. Find x .

8) Find x if $CD = x + 14$, $AD = 21$,
 $AB = 15 + x$, and $BC = 4$.

9) $BC = x + 6$, $AD = 15$, $AB = 10$,
and $CD = 2x + 11$. Find x .

10) $AD = x + 25$, $AB = 6$, $BC = 9$,
and $CD = 2x + 17$. Find x .

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Answers to

- 1) 8
- 4) -1
- 7) -2
- 10) -7

- 2) 6
- 5) 5
- 8) -6

- 3) -10
- 6) 10
- 9) -4