

Name:  
Grade:

Date:

**Segment Addition Postulate. Solve x**

1)  $AC = 21$ ,  $AB = x + 1$ , and  $BC = x$ .  
Find  $x$ .

2) Find  $x$  if  $BC = x + 15$ ,  $AC = 13$ ,  
and  $AB = x + 8$ .

3) Find  $x$  if  $BC = 2x - 17$ ,  $AB = 6$ ,  
and  $AC = x - 1$ .

4)  $BC = 2x + 15$ ,  $AB = 7$ , and  $AC = x + 15$ .  
Find  $x$ .

5)  $AB = x + 7$ ,  $BC = x + 4$ , and  $AC = 9$ .  
Find  $x$ .

6) Find  $x$  if  $AB = x$ ,  $AC = 14$ , and  $BC = 6x$ .

7) Find  $x$  if  $BC = -7 + 2x$ ,  $AC = x + 8$ ,  
and  $AB = 6$ .

8) Find  $x$  if  $AB = x - 5$ ,  $BC = 1$ ,  
and  $AC = 2x - 15$ .

9) Find  $x$  if  $AB = 2x + 31$ ,  $AC = 10$ ,  
and  $BC = 2x + 27$ .

10)  $AC = 5x + 1$ ,  $BC = 9$ , and  $AB = 3x$ .  
Find  $x$ .

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Answers to

1) 10

4) -7

7) 9

10) 4

2) -5

5) -1

8) 11

3) 10

6) 2

9) -12