

Review Chapter 1 Foundations for Geometry  
Lesson 1.3 Measuring and Constructing Segments

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19.  $\frac{1}{2}$
20. B
21. D
22.  $AB + AC = BC$ ,  $AB + BC = AC$
23.  $a = 7$ ,  $AB = 4$ ,  $BC = 3$
24.  $\frac{1}{2}$
25.  $\frac{1}{2}$
26.  $AB + AC = BC$  is incorrect. The statement should be written as  $AB + BC = AC$ , not as it is written. But see 2.
27.  $AB + BC = AC$
28.  $AB + BC = AC$
29.  $AB + BC = AC$
30. B

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31.  $AB = \frac{1}{2}(AC + BC)$   
 $= \frac{1}{2}(10 + 14)$   
 $= \frac{1}{2}(24)$   
 $= 12$
32.  $AB + AC = BC$   
 $12 + AC = 14$   
 $AC = 14 - 12$   
 $AC = 2$
33.  $AB + AC = BC$   
 $12 + AC = 14$   
 $AC = 14 - 12$   
 $AC = 2$   
 $AB + AC = BC$   
 $12 + 2 = 14$   
 $14 = 14$