

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

19. $\frac{1}{2}$
20. B
21. D
22. $AB + AC = BC$, $AB + BC = AC$
23. $a = 1$, $AB = 2$
24. $\frac{1}{2}$
25. $a = 2$
26. $AB + AC$ is incorrect. The statement should be written as $AB + BC = AC$, not as it is written. But see c.
27. $AB + BC = AC$
28. $AB + AC = BC$
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. $AB + AC = BC$
 $12 + AC = 14$
 $AC = 14 - 12$
 $AC = 2$
 $BC = AC + AB$
 $BC = 2 + 12$
 $BC = 14$
 $AB + BC = AC$
 $12 + 14 = AC$
 $AC = 26$