

## Review for test

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each triangle. Round your answers to the nearest tenth.

1)  $a = 30$  in,  $c = 17$  in,  $b = 18$  in

2)  $a = 14$  yd,  $m\angle B = 34^\circ$ ,  $c = 30$  yd

3)  $c = 20.2$  cm,  $b = 25.4$  cm,  $a = 10.3$  cm

4)  $m\angle C = 55.2^\circ$ ,  $a = 29.8$  yd,  $b = 9.5$  yd

5)  $c = 22.7$  km,  $b = 28$  km,  $m\angle A = 72.8^\circ$

6)  $b = 26$  ft,  $m\angle A = 88^\circ$ ,  $c = 27$  ft

7)  $a = 10$  m,  $m\angle C = 123^\circ$ ,  $b = 7$  m

8)  $b = 13$  cm,  $m\angle A = 83^\circ$ ,  $c = 27$  cm

9)  $m\angle A = 63^\circ$ ,  $m\angle B = 97^\circ$ ,  $a = 26$  mi

10)  $m\angle A = 95^\circ$ ,  $a = 31$  in,  $c = 22$  in

11)  $m\angle A = 29^\circ$ ,  $m\angle B = 54^\circ$ ,  $c = 43$  mi

12)  $m\angle C = 142^\circ$ ,  $b = 22$  cm,  $c = 20$  cm

13)  $m\angle C = 75^\circ$ ,  $b = 35$  ft,  $c = 34$  ft

14)  $m\angle B = 66^\circ$ ,  $a = 13$  in,  $b = 11$  in

15)  $m\angle B = 32^\circ$ ,  $m\angle C = 118^\circ$ ,  $b = 18$  in

16)  $m\angle A = 35^\circ$ ,  $c = 33$  km,  $a = 21$  km

## Answers to Review for test (ID: 1)

- 1)  $m\angle B = 32^\circ$ ,  $m\angle C = 30^\circ$ ,  $m\angle A = 118^\circ$
- 3)  $m\angle C = 49^\circ$ ,  $m\angle A = 22.6^\circ$ ,  $m\angle B = 108.4^\circ$
- 5)  $m\angle B = 61.7^\circ$ ,  $m\angle C = 45.5^\circ$ ,  $a = 30.4$  km
- 7)  $m\angle A = 34^\circ$ ,  $m\angle B = 23^\circ$ ,  $c = 15$  m
- 9)  $m\angle C = 20^\circ$ ,  $c = 10$  mi,  $b = 29$  mi
- 11)  $m\angle C = 97^\circ$ ,  $b = 35$  mi,  $a = 21$  mi
- 13)  $m\angle A = 21.1^\circ$ ,  $m\angle B = 83.9^\circ$ ,  $a = 12.7$  ft  
Or  $m\angle A = 8.9^\circ$ ,  $m\angle B = 96.1^\circ$ ,  $a = 5.4$  ft
- 15)  $m\angle A = 30^\circ$ ,  $a = 17$  in,  $c = 30$  in
- 2)  $m\angle C = 123^\circ$ ,  $m\angle A = 23^\circ$ ,  $b = 20$  yd
- 4)  $m\angle A = 107.1^\circ$ ,  $m\angle B = 17.7^\circ$ ,  $c = 25.6$  yd
- 6)  $m\angle B = 44.8^\circ$ ,  $m\angle C = 47.2^\circ$ ,  $a = 36.8$  ft
- 8)  $m\angle B = 26.9^\circ$ ,  $m\angle C = 70.1^\circ$ ,  $a = 28.5$  cm
- 10)  $m\angle B = 40^\circ$ ,  $m\angle C = 45^\circ$ ,  $b = 20$  in
- 12) Not a triangle
- 14) Not a triangle
- 16)  $m\angle B = 80.7^\circ$ ,  $m\angle C = 64.3^\circ$ ,  $b = 36.1$  km  
Or  $m\angle B = 29.3^\circ$ ,  $m\angle C = 115.7^\circ$ ,  $b = 17.9$  km