

SM3 Unit 7 test review

1. $\cos \theta = \frac{3}{5}$

2. $\sin \theta = \frac{3\sqrt{23}}{16}$

3. $\tan \theta = \frac{3}{4}$

4. $\sec \theta = \frac{\sqrt{13}}{2}$

5. ≈ 5.6713

6. ≈ 0.9063

7. ≈ 1.3902

8. ≈ 1.1223

9. ≈ 5.6713

10. $\theta \approx 63.4^\circ$

11. $x \approx 1.6$

12. $x \approx 3.8$

13. $m\angle A = 42^\circ$ $a = 4.5$

$m\angle B = 48^\circ$ $b = 5$

$m\angle C = 90^\circ$ $c = 6.7$

14. $m\angle A = 42^\circ$ $a = 4.4$

$m\angle B = 48^\circ$ $b = 4.9$

$m\angle C = 90^\circ$ $c = 6.6$

15. $m\angle A = 31^\circ$ $a = 6.2$

$m\angle B = 59^\circ$ $b = 10.3$

$m\angle C = 90^\circ$ $c = 12$

16. $m\angle B = 24^\circ$

17. $c \approx 20.0$ centimeters

18. $a \approx 12.0$ inches

19. $b \approx 32.7$ miles

20. $a \approx 38.0$ meters

21. $m\angle B = 68.7^\circ$

22. $m\angle C = 24.0^\circ$

23. $m\angle A = 34.5^\circ$ $a = 25$ yd

$m\angle B = 19.5^\circ$ $b = 15$ yd

$m\angle C = 129^\circ$ $c = 36.4$ yd

24. $m\angle A = 76.0^\circ$ $a = 9$ in

$m\angle B = 55^\circ$ $b = 7.6$ in

$m\angle C = 49.0^\circ$ $c = 7$ in

25. $m\angle A = 17.0^\circ$ $a = 6$ m

$m\angle B = 137.0^\circ$ $b = 14$ m

$m\angle C = 26.0^\circ$ $c = 9$ m

26. $x \approx 47.0$ feet

27. $x \approx 2.8$ miles

28. $x \approx 4.8$ feet

29. $Bob \approx 985$ feet

 Ashley ≈ 940 feet