

SM2 unit 11 test review

1. $x = 34$
2. $x = \sqrt{6}$
3. $x = 2\sqrt{10}$
4. $x = 4$
5. $\tan \theta = \frac{4}{3}$
6. $\sin \theta = \frac{1}{3}$
7. $\cos \theta = \frac{2}{\sqrt{13}}$
8. $\sin \theta = \frac{2}{7}$
9. $\theta \approx 55.2^\circ$
10. $\theta \approx 24.6^\circ$
11. $\theta \approx 19.4^\circ$
12. $\theta \approx 55.7^\circ$
13. $x \approx 17.1$
14. $x \approx 33.0$
15. $x \approx 8.4$
16. $x \approx 5.1$
17. $x \approx 21.7$
18. $x \approx 6.1$
19. $x =$ how far up the building is the ladder; $x \approx 18.1$ ft
20. $x =$ distance from home plate to second base; $x \approx 127.3$ ft
21. $x =$ distance from bird to camera; $x \approx 23.3$ ft
22. $x =$ angle of elevation of lift; $\theta \approx 37.9^\circ$
23. $m\angle A = 64.5^\circ$ $a = 4.2$
 $m\angle B = 25.5^\circ$ $b = 8.8$
 $m\angle C = 90^\circ$ $c = 9.8$
24. $m\angle A = 21^\circ$ $a = 2.7$
 $m\angle B = 69^\circ$ $b = 7$
 $m\angle C = 90^\circ$ $c = 7.5$
25. $m\angle A = 16.3^\circ$ $a = 2.8$
 $m\angle B = 73.7^\circ$ $b = 9.6$
 $m\angle C = 90^\circ$ $c = 10$