

Trig Review 1 ANSWERS

- $\sin\theta = \frac{-15\sqrt{41}}{82}$, $\cos\theta = \frac{-6\sqrt{41}}{41}$, $\tan\theta = \frac{5}{4}$, $\csc\theta = \frac{-2\sqrt{41}}{15}$, $\sec\theta = \frac{-\sqrt{41}}{6}$, $\cot\theta = \frac{4}{5}$
- $\sin\theta = \frac{-25\sqrt{1201}}{1201}$, $\cos\theta = \frac{24\sqrt{1201}}{1201}$, $\tan\theta = \frac{-25}{24}$, $\csc\theta = \frac{-\sqrt{1201}}{25}$, $\sec\theta = \frac{\sqrt{1201}}{24}$, $\cot\theta = \frac{-24}{25}$
- $\sin\theta = \frac{\sqrt{7}}{4}$, $\cos\theta = \frac{-3}{4}$, $\tan\theta = \frac{\sqrt{7}}{-3}$, $\csc\theta = \frac{4\sqrt{7}}{7}$, $\sec\theta = \frac{-4}{3}$, $\cot\theta = \frac{-3\sqrt{7}}{7}$
- 25° 5. $\frac{\pi}{4}$ 6. $\frac{\pi}{3}$ 7. $\frac{\sqrt{2}}{2}$ 8. $\frac{-\sqrt{3}}{2}$ 9. $\frac{2\sqrt{3}}{3}$ 10. $\frac{\sqrt{3}}{3}$
11. 2 12. $\frac{-\sqrt{2}}{2}$ 13. $\frac{-\sqrt{2}}{2}$ 14. $\sqrt{3}$ 15. $\sqrt{3}$ 16. $\sqrt{2}$ 17. $\frac{-1}{2}$
18. $\frac{1}{2}$ 19. $\frac{-1}{2}$ 20. $\sqrt{2}$ 21. $\frac{-2\sqrt{3}}{3}$ 22. 1.1918 23. Undef. 24. Undef.

Trig Review 2 ANSWERS

- 200.49° 2. 247.38° 3. 295.47° 4. 126.87°
5. 115.46° 6. 223.95° 7. 168.46° 8. 318.01°
9. $A = 63.43^\circ$, $B = 26.57^\circ$, $c = 2\sqrt{5} \approx 4.47$ 10. $E = 45^\circ$, $e = d = 6\sqrt{2}$
11. $G = 55^\circ$, $h = 11.20$, $i = 19.53$ 12. $M = 30^\circ$, $m = 19$, $k = 19\sqrt{3}$
13. $Q = 34.85^\circ$, $N = 55.15^\circ$, $n = \sqrt{33} \approx 5.74$ 14. $R = 53.13^\circ$, $T = 36.87^\circ$, $r = 8$
15. 514.46m 16. Cable = 106.48 ft., distance between poles = 96.5 ft.

Trig Review 3 ANSWERS

- $A = 73.77^\circ$, $B = 41.23^\circ$, $a = 46.61$
- $A = 63.23^\circ$, $C = 60.77^\circ$, $c = 13.68$, $A' = 116.77^\circ$, $C' = 7.23^\circ$, $c' = 1.97$
- $A = 72.73^\circ$, $C = 87.27^\circ$, $b = 42.89$
- $A = 82.16^\circ$, $B = 25.85^\circ$, $C = 71.99^\circ$

5. $C = 81^\circ$, $a = 27.09$, $b = 28.33$

6. $B = 15.66^\circ$, $C = 130.34^\circ$, $a = 35.21$

7. 743.86 m.

8. 17.6 mi.