

GO COUGARS!



Homework Questions

Change each degree measure to radian measure in terms of π . Do not use your calculator and reduce your answer.

1. $140^\circ \frac{7\pi}{9}$

2. $860^\circ \frac{43\pi}{9}$

3. $1200^\circ \frac{20\pi}{3}$

4. $-300^\circ -\frac{5\pi}{3}$

5. $-405^\circ -\frac{9\pi}{4}$

6. $280^\circ \frac{14\pi}{9}$

Change each radian measure to degree measure without using a calculator.

7. $\frac{-3\pi}{5} -108^\circ$

8. $\frac{11\pi}{3} 660^\circ$

9. $\frac{2\pi}{7} \frac{360}{7}^\circ$

10. $-4\frac{1}{2}\pi -810^\circ$

11. $\frac{-12\pi}{5} -432^\circ$

12. $\frac{8\pi}{5} 288^\circ$

13. $\frac{3\pi}{5} 108^\circ$

14. $\frac{\pi}{5} 36^\circ$

15. $-\frac{\pi}{3} -60^\circ$

Find the exact value of each trigonometric function.

1. $\tan(510^\circ) -\frac{1}{\sqrt{3}}$

2. $\csc \frac{11\pi}{4} \sqrt{2}$

3. $\sin(-90^\circ) -1$

4. $\cot 1665^\circ 1$

5. $\cot 30^\circ \sqrt{3}$

6. $\tan 315^\circ -1$

7. $\csc \frac{\pi}{4} \sqrt{2}$

8. $\tan \frac{4\pi}{3} \sqrt{3}$

9. $\cot 1110^\circ \sqrt{3}$

10. $\cos 270^\circ 0$

11. $\csc(-45^\circ) -\sqrt{2}$

12. $\sin 30^\circ \frac{1}{2}$

13. $\sec 2\pi 1$

14. $\cot(-30^\circ) -\sqrt{3}$

15. $\csc 3\pi \text{ und}$

4.4 extra problems

Find the value of θ in radians and in degrees.

1. $\sin \theta = 0.4565 27.16^\circ 154.84^\circ$

3. $\cot \theta = 2.3545 23.01^\circ 203.01^\circ$

2. $\cos \theta = 0.8746 .47 2.67$

4. $\sec \theta = 1.3746 .40 3.54$

$29^\circ, 331^\circ, .51, 5.78$

$43.32^\circ, 316.68^\circ, .76, 5.53$