

Algebra 2 Bellwork Monday, March 9, 2015

Use the Unit Circle to find the Exact Value or each.

1. $\tan(150^\circ)$

2. $\cos(330^\circ)$

3. $\sin(180^\circ)$

4. $\cos(-315^\circ)$

5. $\sin(960^\circ)$

6. $\tan(1140^\circ)$

7. $\cos\left(\frac{23\pi}{4}\right)$

8. $\sin\left(\frac{-25\pi}{6}\right)$

9. $\tan\left(\frac{-17\pi}{4}\right)$

10. $\sin\left(\frac{11\pi}{2}\right)$

11. $\tan(29\pi)$

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Use the Unit Circle to find the Exact Value or each.

1. $\tan(150^\circ) = \frac{\frac{1}{2}}{-\frac{\sqrt{3}}{2}} = -\frac{1}{\sqrt{3}} = \boxed{-\frac{\sqrt{3}}{3}}$

2. $\cos(330^\circ) = \boxed{\frac{\sqrt{3}}{2}}$

4. $\cos(-315^\circ) = \cos(45^\circ) = \boxed{\frac{\sqrt{2}}{2}}$

5. $\sin(960^\circ) = \sin(240^\circ) = \boxed{-\frac{\sqrt{3}}{2}}$

6. $\tan(1140^\circ) = \tan(60^\circ) = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \boxed{\sqrt{3}}$

7. $\cos\left(\frac{23\pi}{4}\right) = \cos\left(\frac{7\pi}{4}\right) = \boxed{\frac{\sqrt{2}}{2}}$

8. $\sin\left(\frac{-25\pi}{6}\right) = \sin\left(\frac{11\pi}{6}\right) = \boxed{-\frac{1}{2}}$

9. $\tan\left(\frac{-17\pi}{4}\right) = \tan\left(\frac{7\pi}{4}\right) = \boxed{-1}$

10. $\sin\left(\frac{11\pi}{2}\right) = \sin\left(\frac{3\pi}{2}\right) = \boxed{-1}$

11. $\tan(29\pi) = \tan(\pi) = \boxed{0}$

ANSWERS

3. $\sin(180^\circ) = \boxed{0}$