Bellwork Alg 2 Tuesday, April 9, 2019

Use the Unit circle to find the EXACT value of each. Simplify and rationalize fractions where necessary.

1. $\tan\frac{13\pi}{3}$
2. $\cos\frac{-19\pi}{4}$
3. $\sin\frac{41\pi}{6}$
4. $\tan(-750°)$
5. $\cos 840°$
6. $\sin\frac{-15\pi}{2}$
7. $\tan 2070°$
8. $\cos\frac{-25\pi}{6}$
9. $\sin\frac{31\pi}{4}$
10. $\tan(-1215°)$
11. $\cos\frac{-37\pi}{3}$
12. $\sin 46\pi$

Find all angles from $0°$ to $180°$, that satisfies each.

13. $\cos\theta = \frac{-1}{2}$
14. $\sin\theta = \frac{\sqrt{2}}{2}$
15. $\tan\theta = -1$
16. $\sin\theta = 0$

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Answers to Bellwork

1. $\sqrt{3}$
2. $-\frac{\sqrt{2}}{2}$
3. $\frac{1}{2}$
4. $-\frac{\sqrt{3}}{3}$
5. $-1/2$
6. 1
7. undefined
8. $\frac{\sqrt{3}}{2}$
9. $-\frac{\sqrt{2}}{2}$
10. 1
11. $\frac{1}{2}$
12. 0
13. $\theta = 120°, 240°$
14. $\theta = 45°, 135°$
15. $\theta = 135°, 315°$
16. $\theta = 0°, 180°, 36$