

You have 5 minutes to answer these 10 questions. No calculators. Leave answers as simplified as possible. When I call time, drop your pencil and throw your hands in the air like Woody from Toy Story just said "Reach for the sky!"

1. $\cos\left(\frac{11\pi}{6}\right)$ $\frac{\sqrt{3}}{2}$	2. $\tan\left(\frac{\pi}{6}\right)$ $\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$
3. $\sin\left(\frac{\pi}{6}\right)$ $\frac{1}{2}$	4. $\sec\left(\frac{4\pi}{3}\right)$ -2
5. $\tan\left(\frac{11\pi}{6}\right)$ $-\frac{1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$	6. $\csc\left(\frac{3\pi}{4}\right)$ $\sqrt{2}$
7. $\cot\left(\frac{7\pi}{4}\right)$ -1	8. $\cot(\pi)$ Undefined
9. $\sin\left(\frac{\pi}{2}\right)$ 1	10. $\cos(0)$ 1

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1

$$-\frac{1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

2

-1

$$\frac{1}{2}$$

1

0

0

Undefined

-2

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1. $\tan\left(\frac{7\pi}{6}\right)$ $\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$	2. $\cos\left(\frac{7\pi}{4}\right)$ $\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$
3. $\csc\left(\frac{\pi}{4}\right)$ $\sqrt{2}$	4. $\sec\left(\frac{\pi}{6}\right)$ $\frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$
5. $\sec(0)$ 1	6. $\sin\left(\frac{4\pi}{3}\right)$ $-\frac{\sqrt{3}}{2}$
7. $\sec\left(\frac{3\pi}{2}\right)$ Undefined	8. $\sec\left(\frac{5\pi}{4}\right)$ $-\sqrt{2}$
9. $\cot\left(\frac{7\pi}{6}\right)$ $\sqrt{3}$	10. $\cos(2\pi)$ 1

You have 5 minutes to answer these 10 questions. No calculators. Leave answers as simplified as possible. When I call time, drop your pencil and throw your hands in the air like you're playing tag with someone upstairs.

1. $\tan\left(\frac{\pi}{3}\right)$ $\sqrt{3}$	2. $\cot\left(\frac{5\pi}{6}\right)$ $-\sqrt{3}$
3. $\tan(2\pi)$ 0	4. $\sin\left(\frac{7\pi}{4}\right)$ $-\frac{1}{\sqrt{2}} = -\frac{\sqrt{2}}{2}$
5. $\csc\left(\frac{3\pi}{2}\right)$ -1	6. $\cot\left(\frac{\pi}{3}\right)$ $\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$
7. $\tan\left(\frac{4\pi}{3}\right)$ $-\sqrt{3}$	8. $\csc\left(\frac{7\pi}{4}\right)$ $-\sqrt{2}$
9. $\cos\left(\frac{5\pi}{6}\right)$ $-\frac{\sqrt{3}}{2}$	10. $\csc(\pi)$ Undefined