

Instructions

- **Complete the problems as if this were an actual test.**
 - **70-80 minutes of uninterrupted time.** (this means no phones, Netflix, snapchat, etc....I promise you will survive 😊)
 - **Don't use your calculator on the NonCalc problems**
 - **No help from notes, friends, google, etc.**
- **After you have completed the problems, grade your test using the key provided.**
- **Try extra problems, similar to the ones you missed, until you feel like you understand those concepts.**

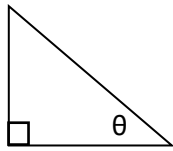
Non-Calculator

- Find one positive and one negative angle coterminal to $\frac{7\pi}{5}$
- Evaluate the following.
 - $\sin 150^\circ$
 - $\cos 240^\circ$
 - $\tan 90^\circ$
 - $\csc \frac{7\pi}{4}$
 - $\sec\left(-\frac{\pi}{3}\right)$
 - $\cot \pi$
- Evaluate the following. Give angle measures as degrees.
 - $\arcsin\left(\frac{\sqrt{3}}{2}\right)$
 - $\arccos\left(\frac{-\sqrt{2}}{2}\right)$
 - $\arctan 0$
 - $\sin\left(\arccos\left(\frac{-\sqrt{3}}{2}\right)\right)$
 - $\cos(\arcsin(1))$
- Solve for θ .
 - $\sin \theta = -\frac{1}{2}$ $0^\circ \leq \theta < 360^\circ$
 - $\cos \theta = -\frac{\sqrt{2}}{2}$ $0^\circ \leq \theta < 360^\circ$
 - $\tan \theta = -\sqrt{3}$ $0 \leq \theta < 2\pi$

CALCULATOR.

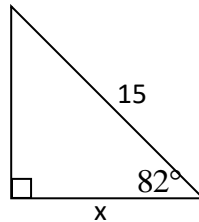
5. Convert 5 radians to degrees. Round to 2 decimal places.

6. If $\tan \theta = \frac{8}{11}$, find $\csc \theta$.



7. If θ in standard position contains the point (5, 12) find $\sin \theta$, $\cos \theta$, and $\tan \theta$.

8. Solve for x . **Round your answer to 2 decimal places.**



9. Your cat is stuck in a tree, 20 feet off the ground. If you want to place your ladder so it makes a 35° angle with the ground, how long does your ladder need to be?

10. Solve for θ . Round answers to 2 decimal places.

a. $\tan \theta = 2.539$ $0^\circ \leq \theta < 360^\circ$

b. $\cos \theta = -0.621$ $0 \leq \theta < 2\pi$