

You have 5 mins. after bell rings !

1. Find $\sin x$ and $\tan x$ if $\cos x = 2/3$ and $\cot x > 0$.
2. What is the referance angle of $\tan 300^\circ$?
3. If $\cos x = 15/17$, what is $\tan x$?
4. What is the length of the radius of an arc if $s = 1.5$ ft. and your angle is $\frac{\pi}{4}$?

Homework Questions

Section 4.7

Inverse Trig Functions

Inverses

- Inverse sine = arcsin = $\sin^{-1}x$
- Inverse cosine = arccos = $\cos^{-1}x$
- Inverse tangent = arctan = $\tan^{-1}x$
- No calc! – Unit Circle!!!

Examples

1. $\sin^{-1}\left(\frac{1}{2}\right)$

2. $\sin^{-1}\left(\frac{-\sqrt{3}}{2}\right)$

3. $\sin^{-1}\left(\frac{\pi}{2}\right)$

4. $\sin^{-1}\left(\sin \frac{5\pi}{6}\right)$

Same for $\cos(x)$ and $\tan(x)$

5. $\cos^{-1}\left(-\frac{\sqrt{2}}{2}\right)$

8. $\sin^{-1}\left(\frac{1}{2}\right)$

6. $\tan^{-1}\left(\sqrt{3}\right)$

9. $\tan^{-1}\left(\cos\left(\frac{\pi}{2}\right)\right)$

7. $\cos\left(2\sin^{-1}\left(\frac{1}{2}\right)\right)$

10. $\tan(22.8)$

Homework

- P. 423 (1-32, 59-61)