

Pre-Calculus

Unit 5 – November 13 to November 21

Date	Topic	Assignment
Thurs 11/13	Inverse Trig 1	Worksheet
Fri 11/14	Inverse Trig 2	Worksheet
Mon 11/17	Inverse Trig 3	Worksheet
Tues 11/18	Review	
Wed 11/19	Test 2.3 - Inverse Trig	
Thurs 11/20	Inverse Trig with Triangles	Handout
Fri 11/21	Right Triangle Trig and Applications	Handout

Thursday, November 13

Inverse Trig 1

- 1) $\sin^{-1}\left(\frac{1}{2}\right)$ 2) $\cos^{-1}\left(\frac{1}{2}\right)$ 3) $\tan^{-1}\left(\frac{\sqrt{3}}{3}\right)$ 4) $\arccos\left(\frac{\sqrt{3}}{2}\right)$ 5) $\arcsin\left(\frac{\sqrt{2}}{2}\right)$
- 6) $\arctan(1)$ 7) $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)$ 8) $\sin^{-1}\left(-\frac{\sqrt{2}}{2}\right)$ 9) $\tan^{-1}(-1)$ 10) $\sin^{-1}0$

Friday, November 14

Inverse Trig 2

- 1) $\cos\left(\sin^{-1}\left(\frac{1}{2}\right)\right)$ 2) $\sin\left(\cos^{-1}\left(\frac{\sqrt{2}}{2}\right)\right)$ 3) $\sin^{-1}\left(\cos\left(\frac{\pi}{3}\right)\right)$ 4) $\cos^{-1}\left(\sin\left(\frac{\pi}{6}\right)\right)$ 5) $\sin^{-1}\left(\sin\left(\frac{7\pi}{4}\right)\right)$
- 6) $\arccos\left(\sin\left(\frac{\pi}{3}\right)\right)$ 7) $\sin\left(\tan^{-1}(\sqrt{3})\right)$ 8) $\cos\left(\tan^{-1}(-1)\right)$ 9) $\tan^{-1}(\cos(\pi))$

Monday, November 17

Inverse Trig 3

Evaluate using your calculator to find the approximate value in degrees to the nearest tenth.

- 1) $\sin^{-1}(0.8621)$ 2) $\arcsin(-0.1702)$ 3) $\cos^{-1}(-0.8425)$ 4) $\arccos(0.2814)$
- 5) $\tan^{-1}(0.3799)$ 6) $\csc^{-1}(1.3562)$ 7) $\sec^{-1}(-2.6891)$ 8) $\cot^{-1}(0.8951)$
- 9) $\arctan(-2.748)$ 10) $\cos^{-1}\left(\frac{3}{5}\right)$ 11) $\sin^{-1}\left(\frac{12}{19}\right)$ 12) $\tan^{-1}(8.9561)$