

Test #3 (Part 1, No Calculator)

Name: _____

Math 150, Prof. Beydler

Thursday, May 18, 2017

Directions: Show all work. No books, notes, or calculators. Your desk and lap must be clear (no phones, no smart watches, etc.). Write your answers in the indicated places, or box your answers. When you're finished with Part 1, please turn it in and start Part 2. Good luck!

1. (1 point each) Evaluate the following. (Write your answers as exact values in radians.)

a. $\sin^{-1}(-1)$

Answer: $-\frac{\pi}{2}$

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

Answer: $\frac{3\pi}{4}$

c. $\tan^{-1}(-\sqrt{3})$

Answer: $-\frac{\pi}{3}$

d. $\csc^{-1}\frac{2}{\sqrt{3}}$

Answer: $\frac{\pi}{3}$

e. $\cot^{-1} 1$

Answer: $\frac{\pi}{4}$

Reminder: When you're finished with this part, please turn it in and start Part 2.