

Name: Me

Math 106

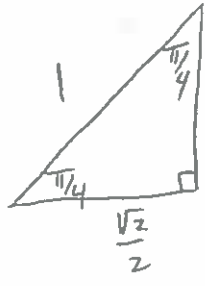
Quiz #1

January 30, 2017

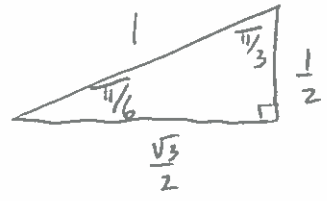
• This is a closed-book quiz. No books, notes, calculators, cell phones, communication devices of any sort, or webpages, or other aids are permitted.

1. [20 points] Compute each of the following trigonometric values.

- 2 each
- (a)  $\sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$
  - (b)  $\cos \frac{\pi}{3} = \frac{1}{2}$
  - (c)  $\sin \frac{\pi}{6} = \frac{1}{2}$
  - (d)  $\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$
  - (e)  $\sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$
  - (f)  $\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}$
  - (g)  $\tan \frac{\pi}{3} = \sqrt{3}$
  - (h)  $\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}}$
  - (i)  $\tan \frac{\pi}{4} = 1$
  - (j)  $\cos \pi = -1$
- OR  $\frac{1}{\sqrt{2}}$



$\frac{\sqrt{2}}{2}$



2. [10 points] Compute each of the following trigonometric values. Justify your answer using either the unit circle or trig triangles.

5 each.

- (a)  $\sin \frac{4\pi}{3} = \frac{-\sqrt{3}}{2}$
- (b)  $\sin \frac{11\pi}{6} = \frac{-1}{2}$

