Math 112 – section _____ _____ = % NAME: _____
Quiz # 2, version A, Spring 2012 20
Sections 7.1-7.2 Seat location: _____
**Full credit is based on work shown!** (letter A-G & number 1-5)

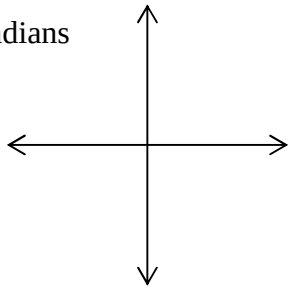
4 pts

1. a. Convert $\frac{2\pi}{3}$ radians to degrees. b. Convert 300° to radians in terms of $\pi$.

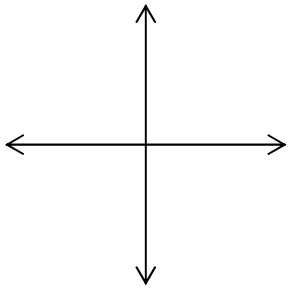
3 pts

Sketch an illustration of each angle.

2.a. $\frac{5\pi}{4}$ radians



b. 150°

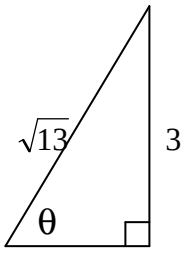


4 pts

3. a. Convert 54.3572222 ° to degrees, minutes and seconds. b. Convert 85° 42’ 27” to decimal degrees.

5 pts

4.a. Calculate the missing side of the Δ shown.




b. Find the **<u>exact value</u>** of each trigonometric function of angle θ in the triangle shown.

sin θ = cos θ =

tan θ = csc θ =

4 pts

2. Use the fundamental identities or Complementary angle theorem to find the value of each expression: Show your work to indicate which identities or theorem you are using.

a. $\cos 40° \sin 50° + \cos 50° \sin 40° =$ b. $\sec 28° - \csc 62° =$