

Advanced Functions – Fall 2012

Name SOLUTIONS

Chapter 5 – Trigonometric Functions

Speed Quiz: Angles of Rotation and Trig Ratios (No Calculators!!)

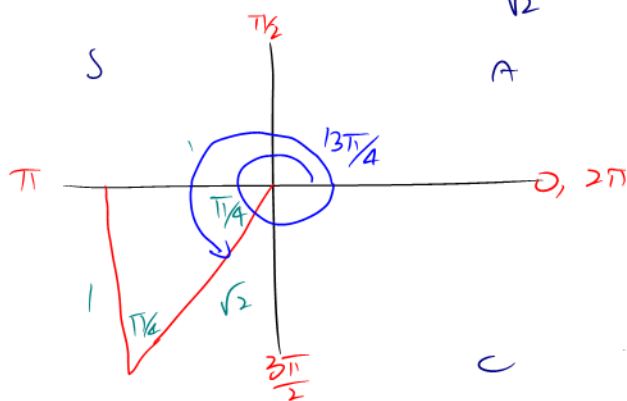
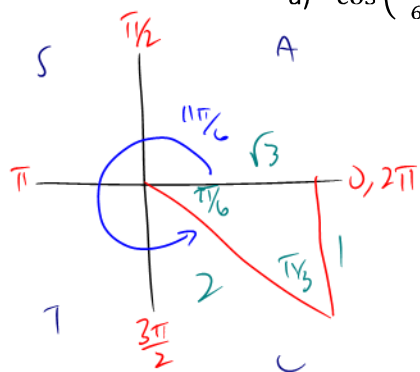
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1. Determine the trig ratios exactly:

(1 mark each)

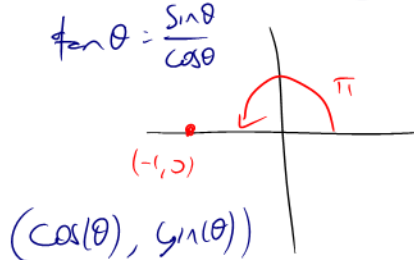
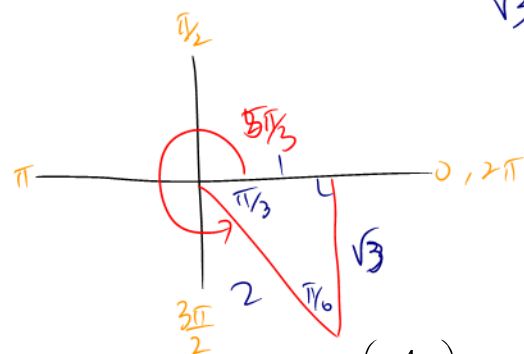
a) $\cos\left(\frac{11\pi}{6}\right) = +\frac{\sqrt{3}}{2}$

b) $\sin\left(\frac{13\pi}{4}\right) = -\frac{1}{\sqrt{2}}$



c) $\csc\left(\frac{5\pi}{3}\right) = \frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$

d) $\tan(\pi) = 0$



d) $\sin\left(-\frac{4\pi}{3}\right) = +\frac{\sqrt{3}}{2}$

e) $\cos\left(\frac{5\pi}{6}\right) = -\frac{\sqrt{3}}{2}$

