

NAME: SOLUTIONS

QUIZ 6

Dawson College

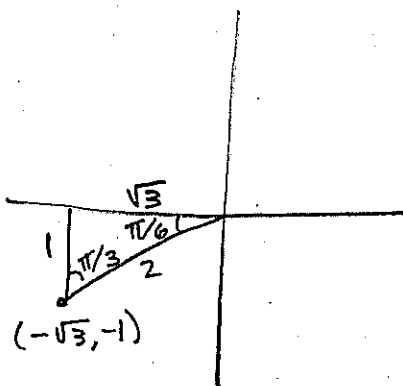
Applied Math (201-943-DW S1)

Date: Nov 19th 2010

Instructor: E. Richer

Question 1. (5 marks)

Use the special triangles to find the EXACT value (no decimals) of $\cot \frac{7\pi}{6}$.

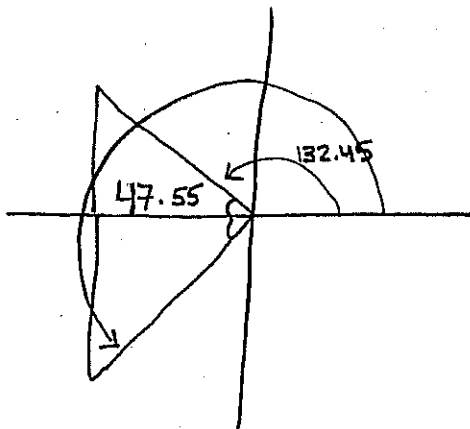


$$\cot\left(\frac{7\pi}{6}\right) = \frac{x}{y} = \frac{-\sqrt{3}}{-1} = \boxed{\sqrt{3}}$$

Question 2. (5 marks)

Solve the equation $\cos \theta = -0.675$ for $0 \leq \theta \leq 360^\circ$

$$\cos^{-1}(-0.675) =$$



$$\theta_1 = \boxed{132.45^\circ}$$

$$\begin{aligned} \theta_2 &= 180^\circ + 47.55^\circ \\ &= \boxed{227.55^\circ} \end{aligned}$$