Exam 4

Name: _____

Student ID #: _____

JUSTIFY ALL YOUR ANSWERS DO NOT ANSWER YOUR QUESTIONS ON THIS PIECE OF PAPER USE PENCIL

This exam has 4 questions, for a total of 60 points.

1. (10 points) Compute the exact value of $\cos^{-1}\left(\frac{1}{2}\right)$.

2. (10 points) Compute the exact value of the expression $\sin(\sin^{-1}(5))$, if it is defined.

3. (10 points) Evaluate the expression $\cos\left(\sin^{-1}\frac{2}{3}\right)$ by using triangles.

- 4. Solve the equation,
 - (a) (10 points) $2\cos^2 x 1 = 0$,
 - (b) (10 points) $3\tan^3 x = \tan x$, and
 - (c) (10 points) $\sec \frac{x}{2} = \cos \frac{x}{2}$.