

Name: _____

Student ID: _____

Quiz 10

Question 1. (2 marks) Find $\cos 2x$ if $\sin x = 4/5$ and x is in the first quadrant.

Question 2. (5 marks) Solve for x for $0 \leq x \leq 2\pi$.

$$2\cos^2 x - 2\cos 2x - 1 = 0$$

Question 3. (3 marks) Express the following in the simplest form with rationalized denominator:

$$\frac{2\sqrt{3} - 5\sqrt{5}}{\sqrt{3} + 2\sqrt{5}}$$