

Quiz 7
Due: 26 March 2024

Answer the questions in the spaces provided. **Show all of your work and circle the answer you would like to have graded for each question.**

Name: _____

1. Solve for **all** solutions to each of the following equations:

a.) $\sin^2(\theta) = 2 \sin(\theta)$;

b.) $3 \cos(x) - 1 = \frac{1}{2}$;

c.) $\sin(x) = 1 - \cos(x)$.

2. Solve for **all** solutions to each of the following equations:

a.) $2 \sin(3x) - 1 = 0;$

b.) $\sec^2(x) - \tan(x) - 3 = 0;$ (*Hint: use inverse trig. functions*)

c.) $2 \cos^2(4x) - 3 \cos(4x) + 1 = 0;$

d.) $\tan(x) + \sec(x) = 1.$