Name _________________________________

• No calculators allowed.
• SHOW SUFFICIENT WORK to justify each answer.
• You have 15 minutes for this quiz.

1. (2 points) Is the following function even, odd or neither?

\[ g(x) = \left( \frac{\sin x}{\cos^2 x - 1} \right)^3 \]

2. (2 points) What is the domain of the function

\[ f(x) = \frac{\sqrt{1 + \sin x}}{3 - 3e^{(4x^2 - 9)}} \]
3. (2 points each) Evaluate the following quantities.

(a) \( \csc \left( \frac{5\pi}{3} \right) \)

(b) \( \tan^2 \left( \frac{3\pi}{7} \right) - \sec^2 \left( \frac{3\pi}{7} \right) \)

4. (2 points) Find \( f \circ g \circ h \). \( f(x) = 3x - 2 \), \( g(x) = \sin x \), \( h(x) = x^2 \).