1. Use of cell phones is NOT allowed.
2. Answers without supporting work will NOT be given credit.
3. You have **20 minutes** to complete this quiz.

Name:

Serial:

1. Solve the following **IVP**

$$\frac{dy}{dx} = y \tan x + \sin x$$

$$y(0) = 1$$

2. Find an **explicit** solution of the following differential equation

$$\frac{dy}{dx} = \frac{\sqrt{1 - y^2}}{x \ln x}$$

Dr. Khalid Alanezy