Name	ID	Section
ivairie	10	Section

Quiz No: 2 Math 260

- 1. Solve the exact differential equation $2x(\sin y)dx + x^2 \cos ydy = 0$.
- 2. Solve the separable differential equation $(1 + y^2)dy/dx = x\cos x$.
- 3. A metal bar whose temperature is $350^{\circ} F$ is placed in a room whose temperature is constant at $70^{\circ} F$. After two minutes, the temperature of the metal bar is $210^{\circ} F$. Use Newton's law of cooling to determine the temperature of the bar after four minutes.
- 4. Solve the initial value problem $dy/dx y = (11/8)e^{-x/3}$, y(0) = -1.