

## Math 2250 Quiz 10.5 (Practice)

Name \_\_\_\_\_ Section \_\_\_\_\_

*Points will be deducted for untidy or disorganized answers*

1. (2 points) Solve the initial value problem

$$\frac{dy}{dx} = \frac{1}{x}, \quad y(2) = 1.$$

2. (3 points) A car brakes with a constant deceleration of 40 feet per second squared, producing skid marks measuring 160 feet before coming to a stop. How fast was the car traveling when the brakes were first applied?