- $\begin{array}{c} \text{Math 205} \\ \text{Quiz } \#5 \end{array}$
- 1. Solve the given differential equation

$$\frac{dy}{dx} = (1 - 2x)y^{2},$$
  

$$y(0) = -\frac{1}{6}.$$
  

$$\Rightarrow \int_{-\frac{1}{2}}^{\frac{1}{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$$