

**Quiz #4**  
**MA 238-02**

**Name:** \_\_\_\_\_  
1/30/09

1. Find the general solution to  $x^2 \frac{dy}{dx} - xy = y^2$ .

2. Solve the initial-value problem  $\frac{dy}{dx} - \frac{1}{x}y = \frac{1}{y}$  with  $y(1) = 3$ .