## King Fahd University of Petroleum and Minerals Department of Math & Stat Math 202, Section 04 (101) Quiz 3

| Name:   |                  |
|---------|------------------|
|         |                  |
| ID #: _ | (Show Your Work) |
|         | (Show Your Work) |

1. Solve the homogeneous differential equation  $xy^2 \frac{dy}{dx} = y^3 - x^3$  by appropriate substitution. (10 points)