

MATH 152 Quiz 6

Name: .

Class time:

Show all work . 5 points each.

1) Evaluate the double integral.

$$\int_4^5 x\sqrt{x^2 + 3y} dy$$

2) Solve the initial value problem

$$\frac{dy}{dx} = \frac{x^2}{y}; y = 3 \text{ when } x = 0$$