

Math 241 Fall 2017

Quiz 3

Name: _____

Show all work and circle/box your final answer. All answers must be simplified unless stated otherwise. Turn in when done.

1. (5 points) A ice cube is melting at a rate of 4cm^3 per minute. How fast is the length of the side decreasing when the side is 2cm ? (The volume of a cube is given by $V = s^3$)

2. (5 points) Find $\frac{dy}{dx}$ for $x^3 + y^3 = 2xy$