

MA 123 A2  
Summer I 2017  
Quiz 7

Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

---

You may use books and notes.

No calculators.

In order to score points you should show *all* your working on this quiz.

There are a total of 5 points available.

---

1. (5 points) Related rates: A spherical balloon is inflated and its volume increases at a rate of  $15\text{in}^3/\text{min}$ . What is the rate of change of its radius when the radius is  $10\text{in}$ ? Remember the volume of a sphere of radius  $r$  is  $V = \frac{4}{3}\pi r^3$ .