

Math 129 section 01 Summer 2013 quiz 1 Name: _____
Name: _____

Reading quiz

1. An ellipse is given by the equation $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$. There is a similar three dimensional object called an ellipsoid. $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$. Suppose we wanted to calculate the volume by integrating over slices parallel to the x -axis what is the cross sectional area when $x = x_0$.
2. How do you find the length of a curve with an integral.
3. Suppose a ball follows the trajectory $x(t) = 5t$ and $y(t) = 6 + 12t - 16t^2$. Write down the integral for the distance the ball travels from $t = 0$ to $t = 3$. Homework

quiz

4. Copy your work and solution for 7.7 # 32.
5. Copy your work and solution for 7.8 # 24.