MATH 251: Quiz 2 February 12, 2015

Name: ______ Sec: _____

Note: Question 2 is on the back.

1. Given the curve

 $\mathbf{r}_1(t) = \langle 8\cos(t), 6t, 8\sin(t) \rangle,$

- (a) Calculate the length of the curve from t = 0 to $t = \pi$.
- (b) Find an arc-length parametrization for this curve.

2. Find the equation of a plane that is parallel to x + 3y + z = 0 and goes through the point (2,3,4).