

Quiz 3

MAC 2313-01

Spring 2010

Full Name: _____

Score: _____

Show all of your work for full credit.

1. Find the domain, range and sketch the level curves of the function:

$$f(x, y) = \sqrt{x + y}$$

from the point $P(2, 0, 0)$ to the point $Q(2, 5\pi, 0)$

2. Reparametrize the curve

$$\vec{r}(t) = (3t, 4 - 4t, t/2)$$

with respect to arc length, from the point $P(3, 0, 1/2)$.