

## Quiz 3

MAC 2313-03

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:

$$f(x) = \sqrt{xy}$$

2. Reparametrize the curve

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

with respect to arc length, from the point  $P(3, 0, 4)$ .