**Quiz 4     Calculus 3     10/31/2007**

Each problem is worth 5 points.  Clear and complete justification is required for full credit.

1.  Give parametric equations $x(t)$, $y(t)$, and $z(t)$, along with bounds for $t$, for the line segment from (1,3,0) to (5,10,4), which is the path a very scary witch flies along on her broom.

2.  Give parametric equations $x(t)$ and $y(t)$ and bounds for $t$ for the left half of a circle with radius 5, centered at the origin, and traversed counterclockwise.