**Quiz 4      Calculus 3      11/2/11**

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

1. Give parametric equations $x(t)$, $y(t)$, $z(t)$ and bounds for $t$ that produce a path from $(-2, 4, 1)$ to $(5, 2, 1)$.

2. Give parametric equations $x(t)$, $y(t)$, $z(t)$ and bounds for $t$ that produce the top half of a circle with radius 2 centered at the origin in the plane $z = 0$ beginning at $(2, 0, 0)$.