## Quiz $6 \quad$ Calculus $3 \quad$ 10/28/2009

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

1. Give parametric equations $\mathrm{x}(t), \mathrm{y}(t), \mathrm{z}(t)$ and bounds for $t$ that produce a path from $(3,0,1)$ to (3, $7,-5$ ).
2. Give parametric equations $\mathrm{x}(t), \mathrm{y}(t), \mathrm{z}(t)$ and bounds for $t$ that produce a quarter of a circle with radius 3 in the plane $z=5$ beginning at $(3,0,5)$ and ending at $(0,3,5)$.
