## Quiz $1 \quad$ Calculus $3 \quad$ 11/4/2015

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 $(0,-2,10)$ to $(5,-3,7)$.
2. Give parametric equations $x(t), y(t), z(t)$ and bounds for $t$ that produce the top half of a counterclockwise circle with radius 5 centered at $(0,0,2)$ in the plane $z=2$ starting at $(5,0,2)$ and ending at $(-5,0,2)$.
