Quiz 1 Calculus 3 10/29/2014

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 (4, –2, 7) to (0, –2, 8).

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 3 centered at the origin in the plane $z = 5$ starting at (3,0,5) and ending at (–3,0,5).