Each problem is worth 5 points. Clear and complete justification is required for full credit. Print and complete the quiz without any assistance from resources beyond calculator and paper. Submit a pdf scan of your completed quiz on Moodle.

1. Give parametric equations x(t), y(t), z(t) and bounds for *t* that produce a path from (1, 5, 1) to (5, 3, 2).

2. Give parametric equations x(t), y(t), z(t) and bounds for *t* that produce a circle with radius 3 centered at the origin in the plane z = 0 beginning at (3, 0, 0).