## Quiz 1 Calculus 3 10/26/21

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 (1, 5, 1) to (4, 3, 2).

2. Give parametric equations x(t) and y(t) and bounds for t that produce a circle with radius 3 centered at the origin traversed 2 complete times beginning and ending at (0,3).