1. Give parametric equations x(t), y(t), z(t) and bounds for t that produce a path from (7, 7, -4) to (5, 7, 1).

$$\chi(t) = 7 + (5-7)t = 7-2t$$
  
 $\gamma(t) = 7 - 0t = 7$   
 $\xi(t) = -4 + (1-(-4))t = -4+5t$  Excellent!  
for  $0 \le t \le 1$ 

2. Give parametric equations x(t), y(t), z(t) and bounds for t that produce the portion of a unit circle centered at (0, 0, 2) in the plane z = 2 beginning at (1, 0, 2) and ending at (0, 1, 2).

