1. Give parametric equations x(t), y(t), z(t) and bounds for t that produce a gory path from (-2,3,1) to (5,4,1).

vector= $(-2,3,1) \rightarrow (5,4,1)$   $2=5 \vec{\Gamma} = (-2+7t,3+t,0)$   $=> x(t)=-2+7t \qquad \text{first}$   $y(t)=3+t \qquad \text{forest}$   $Z(t)=1 \rightarrow Z \text{ stays constant at value 1.}$   $0 \le t \le 1$ 

2. Give parametric equations x(t), y(t), z(t) and bounds for t that produce the half with negative x values of circle with radius 5 centered at (0,0,2) in the plane z=2 traversed counterclockwise (when viewed from above). That's the path this creepy ghost is following and I'm really scared!

- x half  $Z(t) = 2 \implies \text{stays constant}$   $X(t) = S\cos(t) \implies \text{radius S}$   $Y(t) = S\sin(t) \implies \text{radius S}$   $\frac{T}{2} \le t \le \frac{3T}{2}$  Cuellent!