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Quiz 1

Calc 1

10/31/23



1. Give parametric equations $x(t)$, $y(t)$, $z(t)$ and bounds for t that produce a spooky path from $(2, 9, 3)$ to $(5, 7, 1)$.

$$x(t) = 2 + 3t$$

$$y(t) = 9 - 8t$$

$$z(t) = 3 - 2t$$

$$0 \leq t \leq 1$$

2. Give parametric equations $x(t)$, $y(t)$, $z(t)$ and bounds for t that produce the half with positive y values of circle with radius 3 centered at the origin in the plane $z = 2$ traversed counterclockwise (when viewed from above). It's floating there eerily and I'm kinda creeped out.

$$x(t) = 3 \cos(t)$$

$$y(t) = 3 \sin(t) \quad \text{from } 0 \leq t \leq \pi$$

$$z(t) = 2$$

