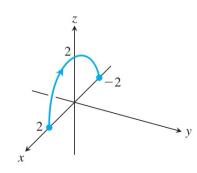
Full name: ______ GT ID:_____ Sec:___

Quiz 9 Version A

You have 15 minutes to take the quiz. No phones, notes, or use aids of any kind is permitted.

- 1. (4 points) [Parameterizations of Curves and Line Integrals] True or False.
 - (a) If C_1 and C_2 are two curves with the same starting point and ending point, then $\int_{C_1} f(x,y) \, ds = \int_{C_2} f(x,y) \, ds. \tag{A}$
 - $\bigcirc \mathbf{TRUE} \qquad \bigcirc \mathbf{FALSE}$
 - (b) Find a parameterization for space curve C which is the half circle in the xz-plane with $z \ge 0$ shown in the image. [AN]





2. (6 points) [Line Integrals of Scalar Functions] Evaluate the line integral where C is the line segment from (0,0,0) to (2,2,2) shown below. [AJN]

$$A = \int_C \sqrt{x + 2y + z} \, ds, \quad C: \ \mathbf{r}(t) = \langle t, t, t \rangle, t \in [0, 2].$$

