

## QUESTION

**Fastest descent time** The cycloid is the curve traced by a point on the rim of a rolling wheel. Imagine a wire shaped like an inverted cycloid (see figure). A bead sliding down this wire without friction has some remarkable properties. Among all wire shapes, the cycloid is the shape that produces the fastest descent time (see the Guided Project *The Amazing Cycloid* for more about this brachistochrone property). It can be shown that the descent time between any two points  $0 \leq a \leq b \leq \pi$  on the curve is

$$\text{descent time} = \int_a^b \sqrt{\frac{1 - \cos t}{g(\cos a - \cos t)}} dt$$

, where  $g$  is the acceleration due to gravity,  $t = 0$  corresponds to the top of the wire, and  $t = \pi$  corresponds to the lowest point on the wire. (FIGURE CAN'T COPY) a. Find the descent time on the interval  $[a, b]$  by making the substitution  $u = \cos t$ . b. Show that when  $b = \pi$ , the descent time is the same for all values of  $a$ ; that is, the descent time to the bottom of the wire is the same for all starting points.

# Guided Project 54 Cycloid

**USA Patent Office**



## **Guided Project 54 Cycloid:**

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