

## The JETS Challenge

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### Challenge 104 – The Indy Challenge

#### Problem:

Sam Hornish, Jr. from Defiance, OH, won the 2006 Indianapolis 500 by the second narrowest margin ever. Only 0.0635 seconds separated him from rookie Mario Andretti, whom he passed on the last turn of the 200 trips around the track at an average speed of 214 mph. The centerline of the oval track include four  $\frac{1}{4}$  mile long turns separated by a  $\frac{1}{8}$  mile straightaway on each end and a  $\frac{5}{8}$  mile straightaway on each side. Assume the path of both drivers around the “Oval” for the entire race (ignore passing and pit stops) averaged to a perfect oval with the winner staying exactly on the centerline.

**Find the difference in the length of the turn radius between the two drivers (inches).**

Note: there are 5280 feet in one mile.

