Lesson Guide

This lesson guide accompanies the following video lesson:

Arc Length and Sector Area Practice Problems

Practice Problems

Use the arc length and sector area formulas to solve the following problems. Round your answer to the nearest hundredths decimal place. <u>Draw a diagram to</u> <u>help you!</u>

Formula Reference





(1)

A 14.75 inch long windshield wiper blade starts at a horizontal resting position and swipes upward on an arc at an angle of 132°. How many square inches of the windshield's surface does the blade cover on any given swipe?



My Answer: _

(2)

Tyler and Jordan are partners in a relay race on a curved track with a radius of 25 meters. If Jordan's location on the track is 153 degrees away from Tyler's, how much distance is between them on the track?



My Answer:

ANSWER KEY

250.6 square inches
66.8 meters