

Honors Geometry

Problem of the Week #1 — Windshield Wipers

Due Monday January 14th, 2019 at the start of class

A certain windshield wiper is 10 inches long. The rubber wiping blade is 6 inches long and is attached to the outside end (opposite the center of rotation). How much area does the blade cover if the wiper sweeps through an angle of 150° ? State the answer as a reduced fraction in terms of pi and as a decimal rounded to the nearest hundredth.

As always, submit your write up as a written report with an introduction, explanation, any math work and pictures and a conclusion. It should be neatly hand written or typed.

