

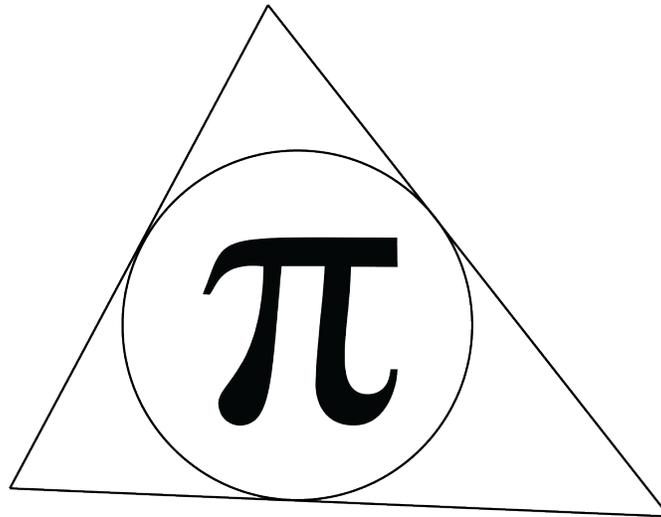


Problem of the Week

Problem E

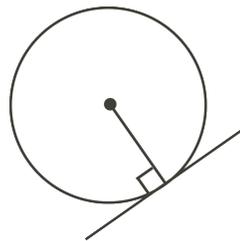
Pizza Pi Box

A box in the shape of a triangle with side lengths 13, 14, and 15 is being used to pack a pizza pi. The pizza is in the shape of a circle and just touches each of the three sides of the triangular box. What is the area of the circle?



NOTE: For this problem, the following known results about circles may be useful:

- If a line is tangent to a circle, then the line is perpendicular to the radius drawn to the point of tangency.



- If two tangent segments are drawn to a circle from a point outside of the circle, then the lengths of those segments are equal.

