Math 123-02
Spring 2026
Dr. Lily Yen

Assignment 3
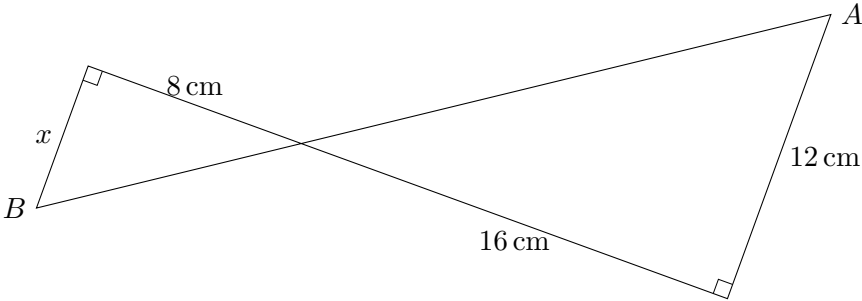Show all your work

Problem 1: Set up a table for convex regular polygons' one interior angle beginning with a triangle, followed by a quadrilateral, a pentagon, and so on. From your table, derive a formula for the measure of one interior angle in a regular n-sided polygon.

Score: /3

Problem 2: Find $x =$ [ ]. Also find the length of the line segment $AB =$ [ ].

Score: /4

Problem 3: Take a 16 cm rope as a perimeter of a rectangle with whole-number side lengths. List all such rectangles. Find the largest rectangle (in area) with a perimeter of 16 cm.

Score: /3