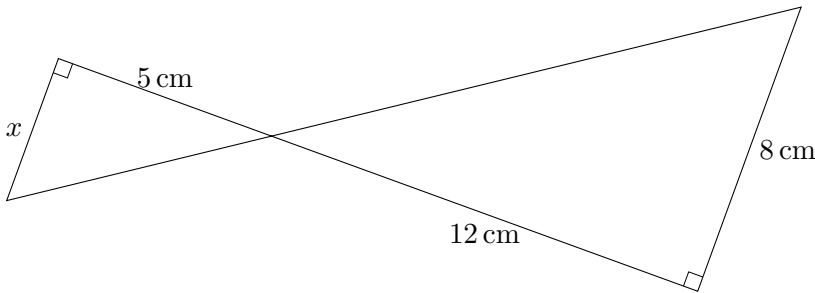# Quiz Three
Show all your work

Name: _____

Number: _____

Signature: _____

Score: ___/10

Problem 1: Find $x =$ [   ]. Name the triangles, like ABC and CDE and provide reasons for your claim.

Score: /3

Problem 2: Set up a table for convex polygons' angle sums beginning with a triangle, followed by a quadrilateral, a pentagon, and so on. From your table, derive a formula for the measure of an interior angle in a regular n-sided polygon.

Score: /3

Problem 3: Draw the following two shapes: A 4×3 rectangle and a circle of radius 3. Which of the two cover more area? Does the one with a larger area have a larger perimeter? Show your work to support your claim.

Score: /4