

CSC 142 In-Class Exercise:

Draw a triangle with corners at points (100, 200), (700, 200), (700, 900) using DrawingPanel.

Compute and display the lengths of sides and the area of the triangle (on Drawing Panel window).

Hints:

Length d of a side is:
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Area A of a triangle with sides a , b and c is:
$$A = \sqrt{s(s - a)(s - b)(s - c)}$$

$$s = \frac{a + b + c}{2}.$$

Where s is the semi-perimeter of the triangle: