

Name:

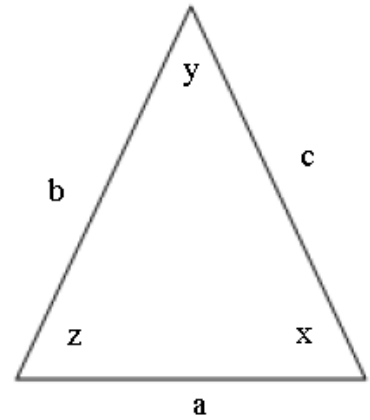
## QUIZ – MATH GRADE 11

1. (10%) Given the following triangle:

a. (5%) State the sine rule in this triangle:

b. (5%) State the cosine rule:

$$b^2 = \underline{\hspace{2cm}}$$



2. (25%) Given the triangle ABC,  $AB = 20\text{cm}$ ,  $AC = 10\text{cm}$ ,  $CAB = 60^\circ$ . Give all answers as expressions.

a. (5%) Sketch the triangle.

b. (10%) Find all the angles and sides of the triangle.

c. (5%) Find the perimeter of the triangle.

d. (5%) Find the area of the triangle.

- (35%) Given the triangle ABC,  $AB = 8$  cm,  $AC = 10$  cm,  $\angle ABC = 45^\circ$ . Give all answers as expressions.
- (5%) Sketch the triangle.
  - (20%) Find all the angles and sides of the triangle.
  - (10%) Find the area of the triangle.
3. (30%) Given the triangle ABC,  $AB = 10$  cm,  $AC = 7$  cm,  $\angle ABC = 20^\circ$ . Give all answers as expressions.
- (15%) Sketch the possible **triangles** with the information provided
  - (15%) Find all the angles and sides of both triangles.