

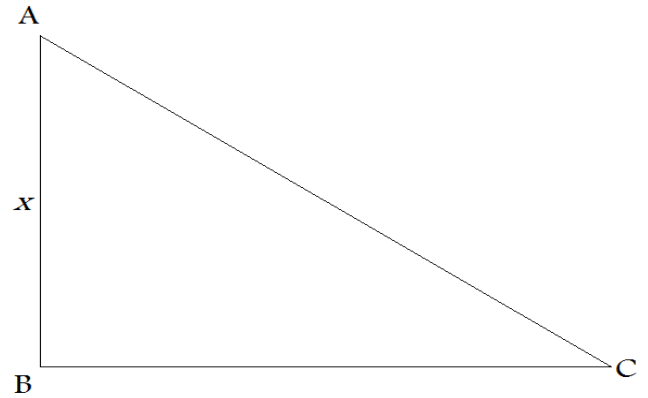
Name: _____

Date: _____

QUIZ – TRIGONOMETRIC RATIOS

1. (50%) Given the following right angled triangle. Given that $AB = x$. $AC = 3AB$. find

- a. (5%) $\sin(C) =$
- b. (5%) $\cos(A) =$
- c. (10%) BC in terms of x .
- d. (10%) $\sin(A) =$
- e. (5%) $\cos(C) =$
- f. (5%) $\tan(A) =$
- g. (5%) $\tan(C) =$
- h. (5%) $\sin(B) =$



2. (25%) The height of building is x m. The depression angle of the light as it approaches the ground is 20° . The shade on the ground is 58m long.
- a. (10%) Sketch a diagram that describes the situation.
 - b. (15%) Find the height of the building.

3. (25%) Daniel looks at the sky and sees an airplane whose height is 9km above the ground. The distance between Daniel and the airplane is 12km.
- a. (10%) Sketch a diagram that describes the situation.
 - b. (15%) Find the angle of elevation of Daniel's head.