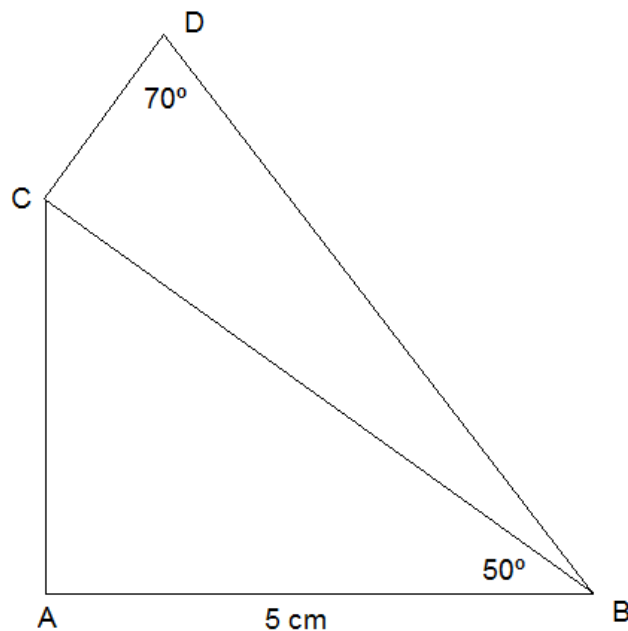Name:

QUIZ – MATH GRADE 11

1. (45%) Given the following diagram where CAB = DCB = 90°. AB = 5 cm

   a. (15%) Find the perimeter of triangle ACB

   b. (7%) Find the area of triangle ACB

   c. (10%) Find the perimeter of triangle CDB

   d. (8%) Find the area of triangle CDB

   e. (5%) find the perimeter of ACDB

2. (55%) Given that the elevation angle measured to a certain object is $10°$ for a certain distance (d_1) and the elevation angle for the same object is $8°$ for a different distance (d_2):

    a. (15%) Sketch a diagram that describes this situation.

    b. (20%) Write 2 trigonometric equations to relate between d_1, d_2 and h (the object's height) to represent this information.

    c. (20%) If we know that the object's height is 5m find the <u>distance that the observer has moved</u> between the 2 situations.