HERITAGE GLOBAL ACADEMY

2, Ola Iya close, Off Okiki Street, Isawo Road, Owutu Agric-Ikorodu, Lagos

SECOND TERM CONTINOUS ASSESSMENT II (2023/2024 SESSION)
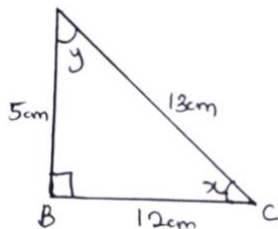
Subject: MATHEMATICS

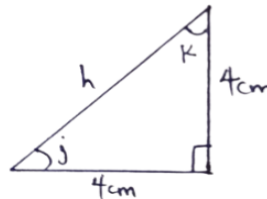**Class: JSS3**   **Time: 60 MINUTES**

ANSWER ALL QUESTIONS

1. A trapezium has parallel sides which are 5cm and 7cm long respectively. If the area of the trapezium is 72cm², find the distance between these parallel sides.   (3 MARKS)
2. A cone has a base radius of 6cm and a height of 8cm. Find its slant height.   (2 MARKS)
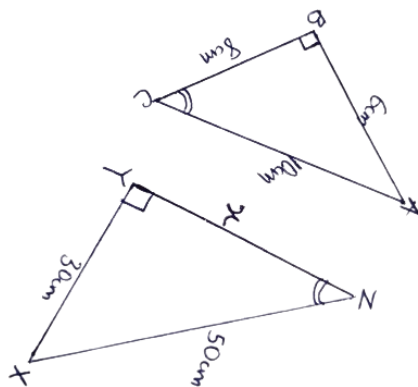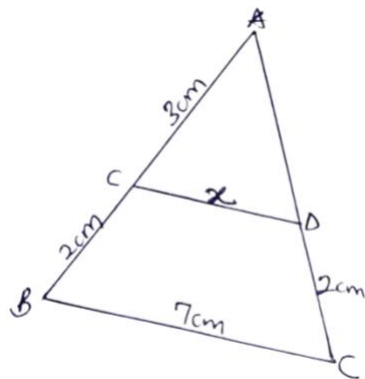3. Calculate the unknown in the figures below

   a.

   b

                     (10 MARKS)

4. Calculate the volume of a cylinder with a base radius of 7cm and vertical height of 6cm ($\pi = \frac{22}{7}$)
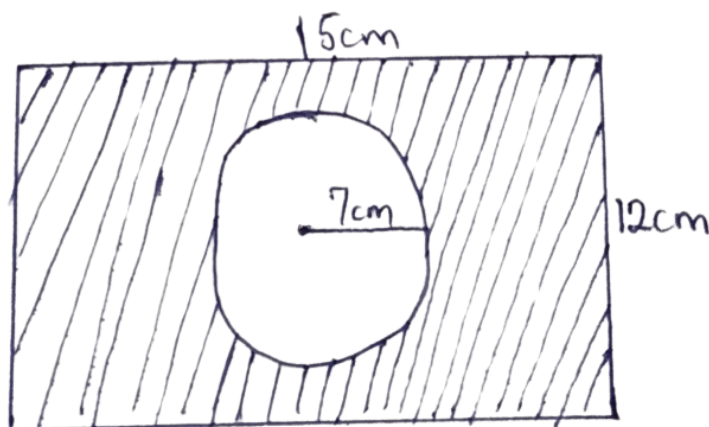5. The figure below are two similar triangles, calculate the unknown sides

   a.

(4 MARKS)

6. Calculate the are of the shaded portion in the figures below

a.

(2 MARKS)

b. (2 MARKS)

7. Calculate the total surface area of a cylinder with radius of 7cm and 10cm high. (2 MARKS)

8. A room of length 12 cm, breadth 8 cm and height 5 cm were filled with sand. What is the volume of the sand used? (3 MARKS)

9. A ladder leans on a vertical wall making an angle of 30° with the ground. What is the length of the ladder if the wall is 5m high? (2 MARKS)

10. Using any method of your choice, solve the simultaneous method below

9X - 4y = 0

3X + 2y = 0   (5 MARKS)