



Core Mathematics C12(GCE)

Practice Question 19

Standard A[★]

Mr. S. V. Swarnaraja

(Team Leader, Marking Examiner & Author)

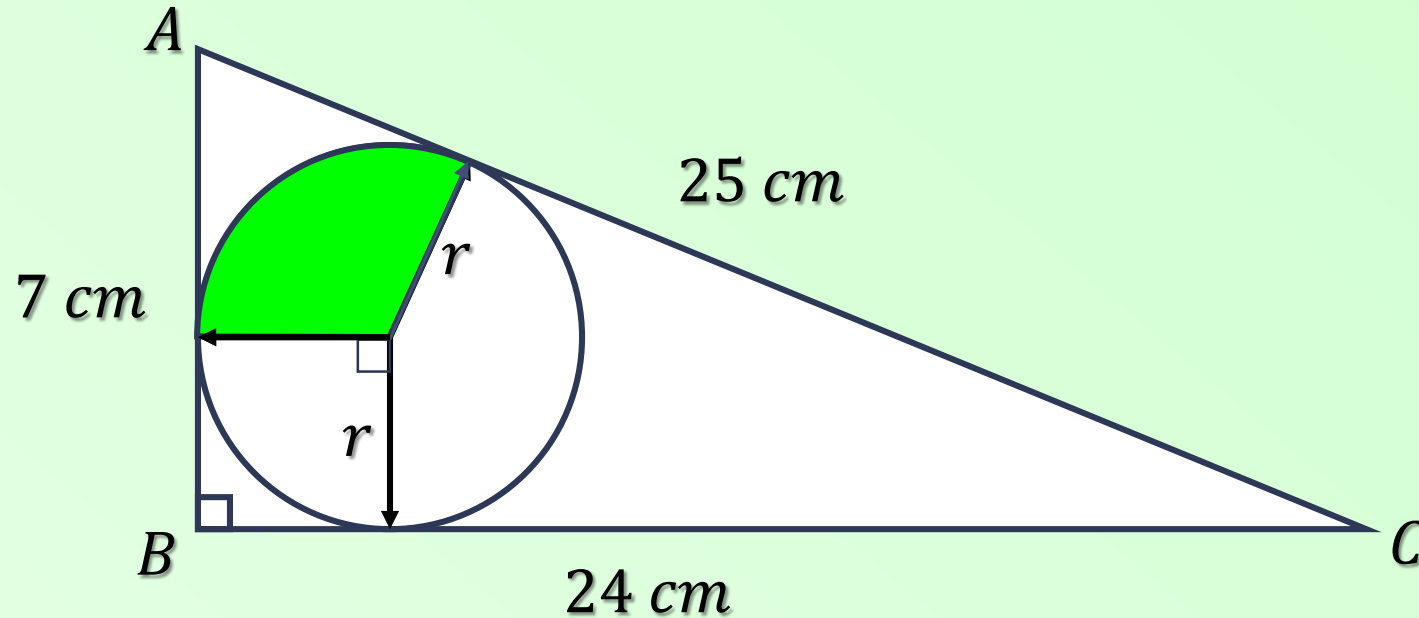
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**CRITICAL THINKING IS THE KEY TO SOLVE REAL WORLD PROBLEMS.
CHILDREN MUST BE TAUGHT HOW TO THINK, NOT WHAT TO THINK.
A GREAT TEACHER WILL BE CREATING STUDENTS TO DO NEW THINGS
THROUGH CRITICAL THINKING, NOT SIMPLY REPEATING WHAT OTHER
GENERATIONS HAVE DONE BEFORE. WE DO NOT NEED ANOTHER
ALBERT EINSTEIN OR ISAAC NEWTON.... WE NEED A PERSON BETTER
THAN THEM.**

MR.S.V. SWARNARAJA

Radian measure

Question:



Find the area of the shaded region, giving your answer to 3 significant figures.

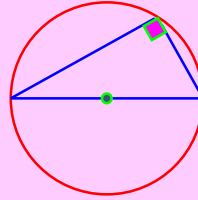
(5 marks)

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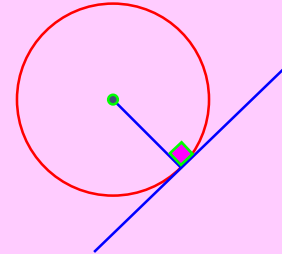


Golden Rules

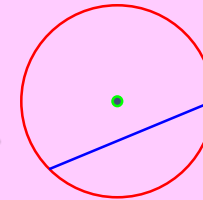
- The angle in a semicircle is a right angle.



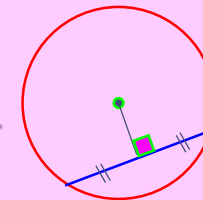
- The angle between the tangent and a radius is 90° .
- The tangent meets a circle at one point only.



- A chord is a line that joins two points on the circumference of a circle.

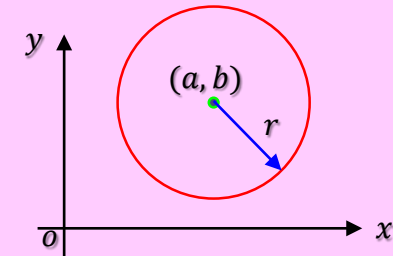


- The perpendicular from the centre of a circle to a chord bisects the chord.



- We can write the equation of a circle in the form

$(x - a)^2 + (y - b)^2 = r^2$, where (a, b) is the centre and r is the radius.



Traditional or Online classes

Mr. S. V. Swarnaraja

(Team Leader, Marking Examiner & Author)

Mobile: +94 777 304755

email: swa@swanash.com

www.swanash.com