Lycée Des Arts
Hadat: Rue de Jamousee

Mark/ La note

Name/Le nom : .....

Test in/ Examen de : .....

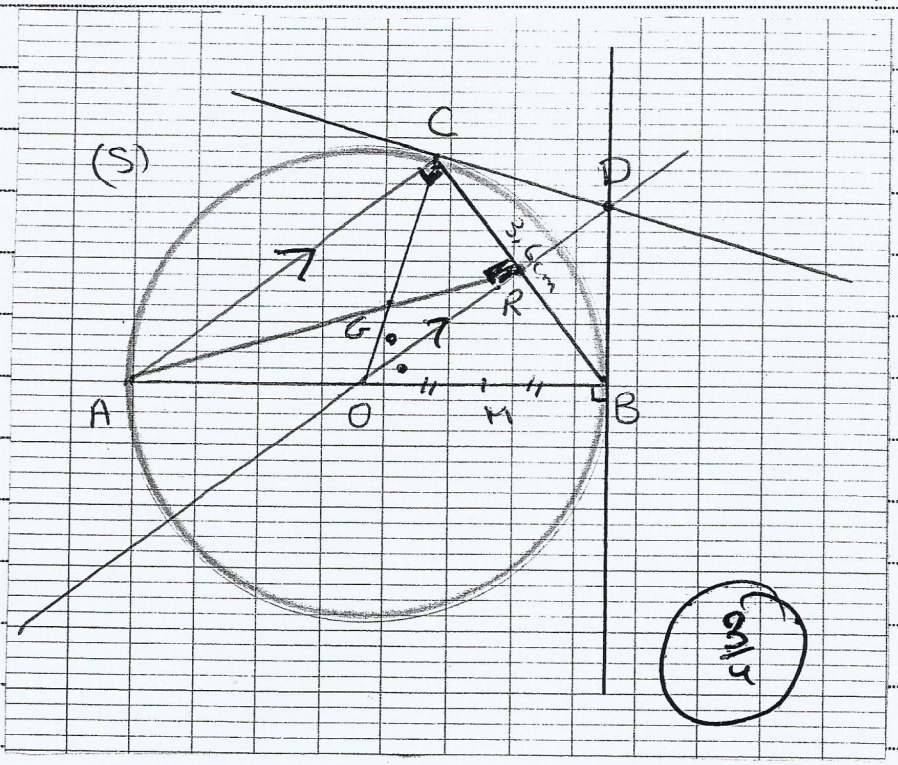
Class/ La Classe: .....

Time / La durée : .....

Date / La date: .....

Exercise 4:

1)



3/4

2) [AB] is a diameter of (S) given

C belongs to (S) given

so ABC is right at C for being inscribed in a circle with one side diameter of this circle. 1/2

By Pythagores theorem:

$BA^2 = BC^2 + CA^2$

$AC^2 = BA^2 - BC^2$

$= 6^2 - (3.6)^2$

$= 36 - 12.96$

$= 23.04$

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thus $AC = \sqrt{23.04} = 4.8\,cm$