



Test in/ Examen de : .....

Name/Le nom : .....

Class/ La Classe: .....

Time / La durée : .....

Date / La date: .....

4)  $O, A$  and  $B$  are fixed points,  $C$  is variable on  $(S)$   
 $OC = 3\text{cm} = \text{radius}$  (fixed length)  
and  $G$  is the centroid in the triangle  $ABC$   
so  $OG = \frac{1}{3} CO$  (property of the centroid)  $\left(\frac{1}{2}\right)$

$$OG = \frac{1}{3} \times 3$$

$|OG = 1\text{cm}|$  the variable point  $G$  is located at a constant distance  $OG = 1\text{cm}$  from the fixed point  $O$

So  $G$  varies: on the circle of center  $O$  and radius  $1\text{cm}$   
fixed

$\left(\frac{1}{2}\right)$

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