TG 1 In the diagram, $O A B$ is a sector of the circle T with centre $O$ and radius 6 cm , where $\angle A O B=30^{\circ}$.

Determine the exact value of the area of the triangle $O A B$.


$$
\begin{aligned}
\text { Area } & =\frac{1}{2} a b \sin C \\
& =\frac{1}{2} \times 6 \times 6 \times \sin 30^{\circ} \\
& =9 \quad \therefore \text { area is } 9 \text { units }^{2}
\end{aligned}
$$

* These solutions have been provided by projectmaths and are not supplied or endorsed by NESA.

