SQ ME The diagram shows the radial survey of a 24 piece of land.
(a) $B$ is south west of $O$. What is the true bearing of $C$ from $O$ ?
(b) What is the area of $\triangle A O B$, to the nearest $\mathrm{m}^{2}$ ?

DIAGRAM TO SCALE

(a)

(b) $\angle A O B=360^{\circ}-225^{\circ}$
$=135^{\circ}$

Area $=\frac{1}{2} \times 15 \times 25 \times \sin 135^{\circ}$
= 132.5825215...
$=133$ (nearest whole)
$\therefore$ the area is $133 \mathrm{~m}^{2}$.

If $B$ is south west of $O$, then the bearing of $B$
from $O$ is $180^{\circ}+45^{\circ}=225^{\circ}$.

$$
\begin{aligned}
\text { Bearing of } C \text { from } O & =225^{\circ}-65^{\circ} \\
& =160^{\circ}
\end{aligned}
$$

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

