## U2D7

SINE LAW
SINE LAW: If looking for an angle: $\quad \frac{\sin A}{a}=\frac{\sin B}{b}=\frac{\sin C}{c}$

To use the sine law you need
one complete side-angle pair.

$$
\text { If looking for a side: } \quad \frac{a}{\sin A}=\frac{b}{\sin B}=\frac{c}{\sin C}
$$

Example 1: Calculate the value of angle $A$ and angle $B$. Round to one decimal place.

$a=14, b=13, c=15, \Varangle C=67.4^{\circ}$

Example 2: In $\triangle D E F, E=108^{\circ}, F=32^{\circ}, e=7.5 \mathrm{~cm}$. Determine the length of ' d ' to one decimal place.

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## U2D8

## APPLICATIONS OF SINE LAW

1. Two people stand approximately 50 m apart on level ground. One person measures the angle of elevation of a hot air balloon to be 580. The other person measures the angle of elevation to be $41^{\circ}$. How far is each person from the hot air balloon?
