## Ambiguous Triangles

## Outcome 3

Ambiguous-can "go" one way
or the other
Last Year- Law of Sivas


$$
x=\frac{10 \times \sin 44}{\sin 29}
$$

$$
x=14.33
$$

A triangle has angle $A=42^{\circ}$
side $a$ is 10 . side $b=12$. Find
both possible values of side $C$

1) Find Angle B
2) Determine $\angle C$
3) Find $C_{1} A$


Find $\angle B$ first $\frac{10}{\sin 42}=\frac{12}{\sin B}$
$\angle C=180-\angle B-\angle A \quad \overline{\sin 42}=\frac{12}{\sin B}$
$\angle C=84.58$

\#2 Ambiguous Triangle
$\angle A=38 \quad$ side $a=11$
side $b=13$ Find both values of $c$


