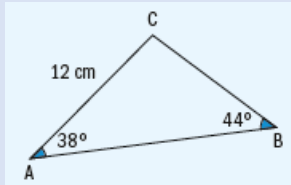


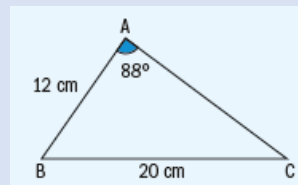
Chapter 11 / Example 9

Using the sine rule

1 Find the length of side BC.



2 Find angle C.



Open a new document and add a Calculator page.

Use the touchpad to click on the wheel icon in the page header.

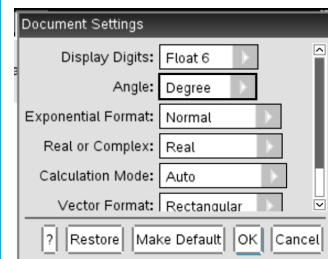


Select 2:Document Settings...

Select 'Degree' as the unit for Angle.

Use the touchpad to select OK or click **enter**.

The page header should now show 'DEG'.



$$a = \frac{12 \sin 38^\circ}{\sin 44^\circ}$$

Open a new document and add a Calculator page.

Press **ctrl** **[$\frac{\Box}{\Box}$]** to enter a fraction template.

Type 12 in the numerator

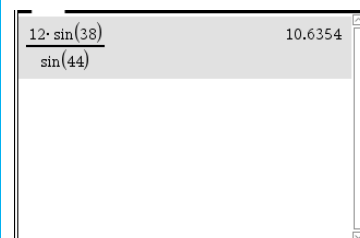
To enter sin Press **trig** and select sin from the menu with the touchpad.

Type 38 and then **▼** to move to the denominator.

Type sin 44 and press **enter**.

sin	cos	tan	csc	sec	cot
sin ⁻¹	cos ⁻¹	tan ⁻¹	csc ⁻¹	sec ⁻¹	cot ⁻¹

$$a = 10.6 \text{ to 3s.f.}$$



Chapter 11 / Example 9

Using the sine rule

$$\sin C = \frac{12 \sin 88}{20}$$

Using your GDC enter the expression $C = \sin^{-1}\left(\frac{12 \sin 88}{20}\right)$ directly.

Press $\boxed{\text{trig}}$ and select \sin^{-1} from the menu with the touchpad.

sin	cos	tan	csc	sec	cot
\sin^{-1}	\cos^{-1}	\tan^{-1}	\csc^{-1}	\sec^{-1}	\cot^{-1}

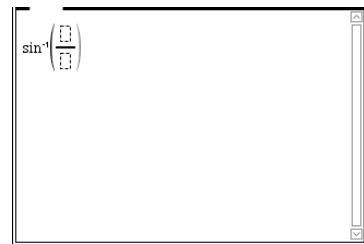
Press $\boxed{\text{ctrl}}$ $\boxed{\frac{\square}{\square}}$ to enter a fraction template.

Type 12 in the numerator

To enter sin Press $\boxed{\text{trig}}$ and select sin from the menu with the touchpad.

Type 88 and then \blacktriangledown to move to the denominator.

Type 20 and press $\boxed{\text{enter}}$.



$$C = 36.8^\circ$$

