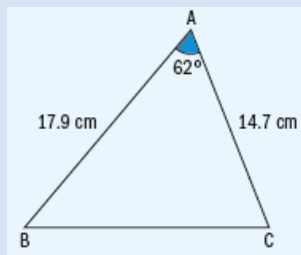


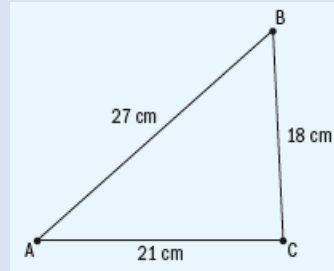
Chapter 11 / Example 11

Using the cosine rule

a Find side BC:



b Find angle A:



Open a new document and add a Calculator page.

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

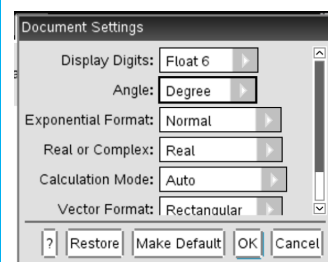


Select 2:Document Settings...

Select 'Degree' as the unit for Angle.

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

The page header should now show 'DEG'.



$$a^2 = 14.7^2 + 17.9^2 - 2 \times 14.7 \times 17.9 \cos 62$$

Use your GDC enter the expression

$\sqrt{14.7^2 + 17.9^2 - 2 \times 14.7 \times 17.9 \cos 62}$ directly.

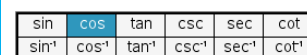
Press **ctrl** **x²** (**√**)



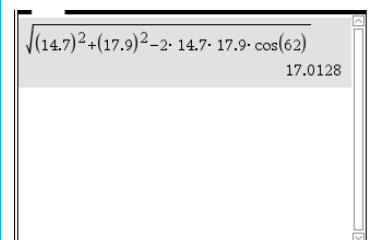
Type 14.7 **x²** **+** 17.9 **x²** **-** 2 **x** 14.7 **x** 17.9

To enter cos press **trig** and select cos from the menu with the touchpad.

Type 62 and press **enter**.



$$a = 17.0$$



Chapter 11 / Example 11

Using the cosine rule

$$\cos A = \frac{21^2 + 27^2 - 18^2}{2 \times 21 \times 27}$$

Use your GDC enter the expression

$$\cos^{-1} \left(\frac{21^2 + 27^2 - 18^2}{2 \times 21 \times 27} \right)$$

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

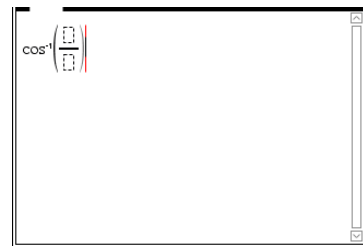
sin	cos	tan	csc	sec	cot
sin ⁻¹	cos ⁻¹	tan ⁻¹	csc ⁻¹	sec ⁻¹	cot ⁻¹

Type $\boxed{\text{ctrl}} \boxed{\div}$ ($\frac{\square}{\square}$) to enter the fraction template.

Type 21 $\boxed{x^2}$ $\boxed{+}$ 27 $\boxed{x^2}$ $\boxed{-}$ 18 $\boxed{x^2}$ in the numerator.

Press \blacktriangledown to move to the denominator and type

2 $\boxed{\times}$ 21 $\boxed{\times}$ 27 and press $\boxed{\text{enter}}$.



$$A = 41.8^\circ$$

