

Provide all answers in exact form or to 3 significant figures.

1. Given that $\sin x = \frac{1}{3}$, where x is an obtuse angle, find the exact value of

(a) $\cos x$: $\cos x = \frac{-\sqrt{8}}{3}$

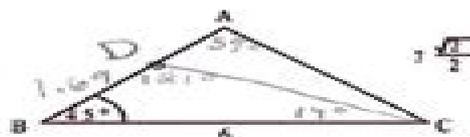
(b) $\cos 2x$.

$$\begin{aligned} \cos 2x &= 1 - 2\sin^2 x \\ &= 1 - 2\left(\frac{1}{3}\right)^2 \\ &= 1 - 2\left(\frac{1}{9}\right) = 1 - \frac{2}{9} = \frac{7}{9} \end{aligned}$$



2. The diagram shows a triangle ABC in which $AC = 7\frac{\sqrt{2}}{2}$, $BC = 6$, $\angle ABC = 45^\circ$.

Diagram not to scale



(a) Use the fact that $\sin 45^\circ = \frac{\sqrt{2}}{2}$ to show that $\sin \widehat{BAC} = \frac{6}{7}$.

a) $\frac{\sin 45^\circ}{7\frac{\sqrt{2}}{2}} = \frac{\sin \widehat{BAC}}{6}$
 $6 \sin 45^\circ = 7\frac{\sqrt{2}}{2} \sin \widehat{BAC}$
 $6 \cdot \frac{\sqrt{2}}{2} = 7\frac{\sqrt{2}}{2} \sin \widehat{BAC}$
 $\frac{6}{7} = \sin \widehat{BAC}$

The point D is on (AB), between A and B, such that $\sin \widehat{BDC} = \frac{6}{7}$.

(b) (i) Write down the value of $\widehat{BDC} + \widehat{BAC}$

Since $\sin \widehat{BAC} = \sin \widehat{BDC}$, this means that these two angles have the same reference angle and are in Q1 and Q2. Therefore they are supplementary and $\widehat{BDC} + \widehat{BAC} = 180^\circ$

(ii) Calculate the angle BCD.

$\sin^{-1}\left(\frac{6}{7}\right) = \widehat{BAC}$

$59^\circ = \widehat{BAC} \rightarrow \widehat{BDC} + 59^\circ = 180^\circ$
 $\widehat{BDC} = 121^\circ$

$\widehat{BCD} = 180 - 121 - 45$
 $= 14^\circ$

(iii) Find the length of [BD].

$\frac{\sin(14^\circ)}{BD} = \frac{\sin(121^\circ)}{6}$
 $6 \sin 14^\circ = BD \sin 121^\circ$

$BD = \frac{6 \sin 14^\circ}{\sin 121^\circ}$
 $BD = 1.69$

(c) Show that $\frac{\text{Area of } \triangle BDC}{\text{Area of } \triangle BAC} = \frac{BD}{BA}$.

$\frac{\text{Area } \triangle BDC}{\text{Area } \triangle BAC} = \frac{\frac{1}{2} \cdot BD \cdot 6 \cdot \sin 45^\circ}{\frac{1}{2} \cdot BA \cdot 6 \cdot \sin 45^\circ} = \frac{BD}{BA}$

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JA Banks



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