Question	Working	Answer	Mark	Notes
17	$(AC^2 =)\ 4.1^2 + 5.3^2 - 2\times 4.1\times 5.3\times\cos(110)$ $(AC =)\ \sqrt{16.81 + 28.09 + 14.8(641...)}$ or $\sqrt{59.7(641...)}$ or $7.7(3073)$ **or** $AC^2 = 59.7\ldots$ Eg $\frac{\sin x}{5.3} = \frac{\sin 110}{"7.7"}$ **or** $\frac{5.3}{\sin x} = \frac{"7.7"}{\sin 110}$ **or** $5.3^2 = 4.1^2 + "7.7"^2 - 2\times 4.1\times "7.7"\times\cos x$ oe Eg $\sin x = \frac{\sin 110}{"7.7"}\times 5.3\ (= 0.644(2\ldots))$ **or** $\cos x = \frac{4.1^2 + "7.7"^2 - 5.3^2}{2\times 4.1\times "7.7"}\ (= 0.764(83\ldots)$	40.1	5	M1 for the correct use of Cosine rule to find AC M1 NB: there must be evidence of correct order of operations for this mark to be awarded M1 dep on first M1 for correct use of sine rule **or** cosine rule ft for their value of AC or AC^2 M1 for isolating $\sin x$ or $\cos x$ A1 for 40.1 – 40.11