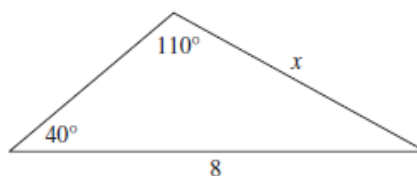




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- 19** **11** Using the sine rule, find the value of x correct to one
M **a** decimal place.

2

$$\frac{x}{\sin 40^\circ} = \frac{8}{\sin 110^\circ} \quad \checkmark$$

$$x = \frac{8 \times \sin 40^\circ}{\sin 110^\circ}$$

$$= 5.472322293\dots$$

$$= 5.5 \text{ (1 dec pl)} \quad \checkmark$$

State Mean:
1.85/2

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by NESA.

Marking Feedback:

Students should:

- use a calculator to solve trigonometric equations
- round off to the given number of decimal places

In better responses, students were able to:

- use the Reference Sheet and substitute correctly
- use the appropriate mode function on the calculator

Areas for students to improve include:

- having a sound understanding of the use of the sine rule