

You will need to use a scientific calculator

1. (a) Use your calculator to work out $\sqrt{12.3^2 + 8.7^2 - 2 \times 12.3 \times 8.7 \cos 95^\circ}$
 Write down all the digits from your calculator.
 Give your answer as a decimal.
 (b) Write your answer to part(a) correct to 2 significant figures.

2. (a) Use your calculator to work out $\sqrt{\frac{\tan 18^\circ + 1}{\tan 82^\circ - 1}}$
 Write down all the figures on your calculator display.
 You must write your answer as a decimal.
 (b) Write your answer to part(a) correct to 1 significant figure.

3. (a) Use your calculator to work out $12.2^2 + 4.5\sqrt{4.5 \sin 27.5^\circ}$
 Write down all the figures on your calculator display.
 You must give your answer as a decimal.
 (b) Write your answer to part(a) correct to 2 significant figures.

4. (a) Use your calculator to work out $\frac{\sqrt{3.2^2 + 7 \tan 15^\circ}}{1.3 - 0.56}$
 Write down all the figures on your calculator display.
 Give your answer as a decimal.
 (b) Write your answer to part(a) correct to 1 significant figure.

5. (a) Use your calculator to work out $\sqrt{\frac{66}{5}} + (1.5 \cos 64^\circ)^2$
 Write down all the figures on your calculator display.
 You must give your answer as a decimal.
 (b) Write your answer to part(a) correct to 2 significant figures.

6. (a) Use your calculator to work out $\frac{\sqrt{35 \sin 73^\circ \times 76.8}}{28.9}$
 Write down all the figures on your calculator display.
 You must give your answer as a decimal.
 (b) Write your answer to part(a) correct to 1 decimal place.

Answers

- 1a) 15.672685... 1b) 16 2a) 0.46546112... 2b) 0.5 3a) 155.3266... 3b) 160
 4a) 4.7037208... 4b) 5 5a) 4.0655612... 5b) 4.0 6a) 1.7543447... 6b) 1.8