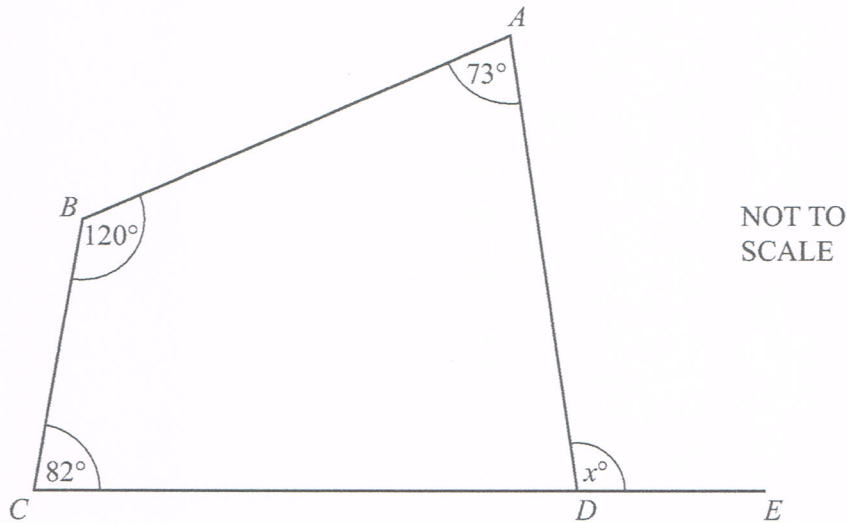


1

For
Examiner's
Use

The diagram shows a quadrilateral $ABCD$.
 CDE is a straight line.

Calculate the value of x .

$$\begin{aligned}\angle ADC &= 360 - 73 - 120 - 82 \\ &= 85^\circ\end{aligned}$$

$$\begin{aligned}\angle ADE &= 180 - 85 \\ &= 95^\circ\end{aligned}$$

Answer $x =$ 95 [2]

- 2 Hans invests \$750 for 8 years at a rate of 2% per year simple interest.

Calculate the interest Hans receives.

$$\begin{aligned}\text{Interest} &= 750 \times \frac{2}{100} \times 8 \\ &= \$120\end{aligned}$$

Answer \$ 120 [2]

- 3 (a) Calculate $\sqrt[3]{7^{1.5} + 22^{0.9}}$ and write down your full calculator display.

$$3.260770654667\dots$$

Answer(a) 3.260770654667... [1]

- (b) Write your answer to **part (a)** correct to 4 significant figures.

Answer(b) 3.261 [1]