

A train leaves the station at 15 40. Does Sophie get to the train station in time to get the train?

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Calculations and Answer

Green Pen Corrections and Notes

░

(3)

(5)

 $oldsymbol{2}$ (a) Here is a cuboid. Work out the volume of the cuboid.

8 *cm* (b) $\boldsymbol{a} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$ $\boldsymbol{b} = \begin{pmatrix} 7 \\ -4 \end{pmatrix}$ Find $2\boldsymbol{a} - 3\boldsymbol{b}$ as a column vector.

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Calculations and Answer

 $\widehat{f 3}$ The diagram shows a right - angled triangle and a quarter circle.

The right – angled triangle ABC has $\angle ACB = 90^{\circ}$. The quarter circle has centre B and radius BC.

Work out the area of the quarter circle. Give your answer correct to 3 significant figures.

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Calculations and Answer

