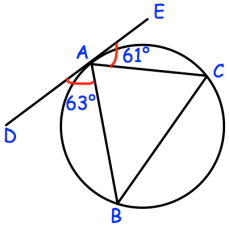
Name: _____ 5-a-day Higher

21st August

Corbettmaths

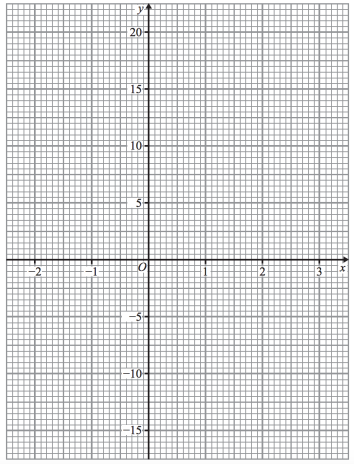


Find angle BAC.

Find angle ACB.

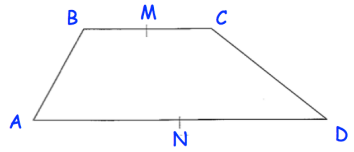
A car travels at 50mph, correct to 1 significant figure. It covers a distance of 300 miles, correct to 2 significant figures.

Calculate the **least** possible time taken.



Draw the graph of $y = x^3 - 2$ for the values of x from –2 to 2.

Use your graph to find an approximate answer to $x^3 - 3 = 0$



$\overrightarrow{AB} = 4\mathbf{a}$ $\overrightarrow{BC} = 4\mathbf{b}$ $\overrightarrow{AD} = 6\mathbf{b}$

M is the midpoint of BC.
N is the midpoint of AD.

Find

$\overrightarrow{MN}$

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Find angle ACB.

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Calculate the **least** possible time taken.

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