206 Which interval gives the range of the function $y=5+2 \cos 3 x$ ?
MA
A. $[2,8]$
B. $[3,7]$
C. $[4,6]$
D. $[5,9]$

B
The range of $y=\cos x$ is $[-1,1]$.
$\therefore-1 \leq \cos 3 x \leq 1$
$-2 \leq 2 \cos 3 x \leq 2$
$3 \leq 5+2 \cos 3 x \leq 7$
State Mean:
$\therefore$ the range is $[3,7]$.
0.77/1

* These solutions have been provided by projectmaths and are not supplied or endorsed by NESA.

Looking for Mathematics Advanced Topic Revision?
Go to our MathsFit page for downloads - just $\$ 2.95$

