07	2b	(i) Find $\int (1+\cos 3x)\ dx$.	2

$$\int (1+\cos 3x)\ dx = x + \frac{1}{3}\sin 3x + c$$

* These solutions have been provided by *projectmaths* and are not supplied or endorsed by the Board of Studies

Board of Studies: Notes from the Marking Centre

(i) Common incorrect responses for $\int \cos 3x dx$ were $3\sin 3x$, $\frac{1}{3}\sin x$ or $-\frac{1}{3}\sin 3x$. Quite a few candidates lost a very easy mark by forgetting to integrate the '1' term. Once again, candidates are advised to use the standard integral sheet for trigonometric functions.

Source: http://www.boardofstudies.nsw.edu.au/hsc_exams/