4	Functions	f	and	g	are	defined	by

f:
$$x \mapsto 2 - 3\cos x$$
 for $0 \le x \le 2\pi$,
g: $x \mapsto \frac{1}{2}x$ for $0 \le x \le 2\pi$.

(i)	Solve the equation $fg(x) = 1$. [3]
(ii)	Sketch the graph of $y = f(x)$. [3]