6	The function f, where $f(x) = a \sin x + b$, is defined for the domain $0 \le x \le 2\pi$. Given that $f(\frac{1}{2}\pi) = 1$ and that $f(\frac{3}{2}\pi) = -8$,
	(i) find the values of a and b , [3]
	(ii) find the values of x for which $f(x) = 0$, giving your answers in radians correct to 2 decimal places.

[2]

(iii) sketch the graph of y = f(x).