6	(a)	Given that $x > 0$ , find the two smallest values of $x$ , in radians, for which $3 \tan(2x + 1) = 1$ . Show all necessary working.

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<b>(b)</b>	The	function $f: x \mapsto 3\cos^2 x - 2\sin^2 x$ is defined for $0 \le x \le \pi$ .
	(i)	Express $f(x)$ in the form $a\cos^2 x + b$ , where $a$ and $b$ are constants. [1]
	(ii)	Find the range of f. [2]
	(11)	