1 **(a)** Write down the period, in radians, of $3\tan\frac{\theta}{2}-3$. [1]

(b) On the axes, sketch the graph of $y = 3\tan\frac{\theta}{2}-3$ for $-\pi \leqslant \theta \leqslant \pi$, stating the coordinates of the points where the graph meets the axes. [3]

