4 **(a)** Show that the equation $4\tan\theta - 3\cos\theta = 0$ can be rewritten as $3\sin^2\theta + 4\sin\theta - 3 = 0$. **[3]**

(b) Hence determine the values of θ for which $4\tan\theta - 3\cos\theta = 0$ in the interval $-180° < \theta < 180°$. **[3]**