5   **(i)** Show that the equation $3 \tan \theta = 2 \cos \theta$ can be expressed as

$$2 \sin^2 \theta + 3 \sin \theta - 2 = 0.$$ [3]

   (ii) Hence solve the equation $3 \tan \theta = 2 \cos \theta$, for $0° \leqslant \theta \leqslant 360°$.   [3]