Show that the equation
$\frac{\cos\theta - 4}{\sin\theta} - \frac{4\sin\theta}{5\cos\theta - 2} = 0$
may be expressed as $9\cos^2\theta - 22\cos\theta + 4 = 0$.

(ii)	Hence solve the equation
	$\frac{\cos\theta - 4}{\sin\theta} - \frac{4\sin\theta}{5\cos\theta - 2} = 0$
	for $0^{\circ} \leqslant \theta \leqslant 360^{\circ}$. [3]