

- 4** **(a)** Solve the equation $\sin^{-1}(3x) = -\frac{1}{3}\pi$, giving the solution in an exact form. [2]
- (b)** Solve, by factorising, the equation $2 \cos \theta \sin \theta - 2 \cos \theta - \sin \theta + 1 = 0$ for $0 \leq \theta \leq \pi$. [4]