6 Giving your solutions to 3 decimal places, solve the equation

(a) $\cos x = 0.4$ $\qquad\qquad -\pi < x < \pi$

(2)

(b) $\tan\left(2\theta + \dfrac{\pi}{4}\right) = 1.5$ $\qquad\qquad 0 < \theta < \pi$

(4)

Question 6 continued

(Total for Question 6 is 6 marks)