Leave blank

6. Find the Taylor series expansion about $x = 1$ of $\dfrac{1}{\sqrt{1 + x^2}}$ in ascending powers of $(x - 1)$, up to and including the term in $(x - 1)^2$, simplifying each term.

(8)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

Leave blank

Question 6 continued

Q6

(Total 8 marks)