

Question 6**(5 marks)**

(a) Given that $\frac{2}{(x+1)(x-1)} = \frac{a}{x-1} + \frac{b}{x+1}$ determine the values for a and b . (2 marks)

(b) Hence determine $\int \frac{1}{x^2 - 1} dx$. (3 marks)