

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

21 $(x + 2)$ is a factor of $6x^3 + 31x^2 + kx + 30$

- (a) Use the factor theorem to show that $k = 53$

(2)

- (b) Factorise fully $6x^3 + 31x^2 + 53x + 30$

(3)

(Total for Question 21 is 5 marks)



P 7 2 4 7 8 A 0 1 5 2 4