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23 $(x+4)$ is a factor of $6x^3 + kx^2 - 26x - 24$, where k is a constant.

(a) Use the factor theorem to show that $k = 19$

(2)

(b) Hence solve $6x^3 + 19x^2 - 26x - 24 = 0$
Show clear algebraic working.

(4)

(Total for Question 23 is 6 marks)

