

DO NOT WRITE IN THIS AREA

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Answer all ELEVEN questions.**Write your answers in the spaces provided.****You must write down all the stages in your working.**

- 1** The quadratic equation

$$kx^2 - (2k + 6)x + 16 = 0$$

has equal roots.

Find the two possible values of k

(4)

(Total for Question 1 is 4 marks)



P 7 4 2 8 5 R A 0 3 3 2