

- 8**     **(i)** Express  $2x^2 - 10x + 8$  in the form  $a(x + b)^2 + c$ , where  $a$ ,  $b$  and  $c$  are constants, and use your answer to state the minimum value of  $2x^2 - 10x + 8$ . [4]
- (ii)** Find the set of values of  $k$  for which the equation  $2x^2 - 10x + 8 = kx$  has no real roots. [4]

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