

**7 (a)** Express  $2x^2 - 5x + k$  in the form  $a(x - b)^2 + c$

**[3 marks]**

**7 (b)** Find the values of  $k$  for which the curve  $y = 2x^2 - 5x + k$  does **not** intersect the line  $y = 3$

**[3 marks]**