

7 **(a)** Sketch the curve $y = 2x^2 - x - 3$. **[3]**

(b) Hence, or otherwise, solve $2x^2 - x - 3 < 0$. **[2]**

(c) Given that the equation $2x^2 - x - 3 = k$ has no real roots, find the set of possible values of k . **[3]**