

- 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]

Specimen