7 The curve C has equation $y = \dfrac{10x^2 - 11x - 18}{10x - 18}$.

(a) Find the equations of the asymptotes of C. [3]

(b) Show that C has no stationary points. [4]

(e) Given that $\left|\dfrac{10x^2 - 11x - 18}{10x - 18}\right| < 4$ for $\dfrac{29 - \sqrt{4441}}{20} < x < p$ and $\dfrac{29 + \sqrt{4441}}{20} < x < q$, find the values of p and q. [4]

Additional page

If you use the following page to complete the answer to any question, the question number must be clearly shown.