7 The curve C has equation $y = \dfrac{2x^2 - 5x}{2x^2 - 7x - 4}$.

(a) Find the equations of the asymptotes of C. [2]

(b) Find the coordinates of any stationary points on C. [4]

(e) Find in exact form the set of values of x for which $\left|\dfrac{2x^2 - 5x}{2x^2 - 7x - 4}\right| < \dfrac{1}{9}$. [5]

Additional page

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