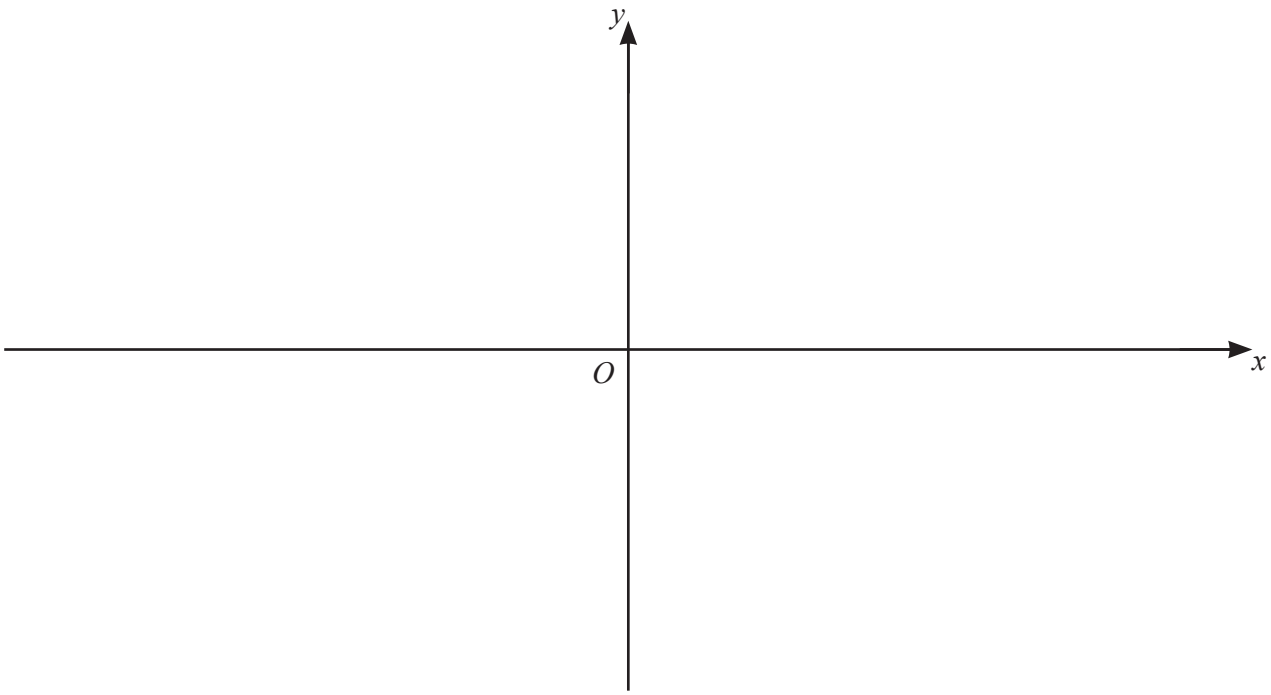
9 **(a)** Find the coordinates of the stationary points on the curve $y = (2x+1)(x-3)^2$. Give your answers in exact form. [4]

(b) On the axes below, sketch the graph of $y = \left|(2x+1)(x-3)^2\right|$, stating the coordinates of the points where the curve meets the axes. [4]



(c) Hence write down the value of the constant k such that $\left|(2x+1)(x-3)^2\right| = k$ has exactly 3 distinct solutions. [1]