

10 It is given that a curve has equation $y = f(x)$, where $f(x) = x^3 - 2x^2 + x$.

(i) Find the set of values of x for which the gradient of the curve is less than 5. [4]

(ii) Find the values of $f(x)$ at the two stationary points on the curve and determine the nature of each stationary point. [5]