9 A curve has equation $y = \mathrm{f}(x)$ and is such that $\mathrm{f}'(x) = 3x^{\frac{1}{2}} + 3x^{-\frac{1}{2}} - 10$.

(i) By using the substitution $u = x^{\frac{1}{2}}$, or otherwise, find the values of x for which the curve $y = \mathrm{f}(x)$ has stationary points. [4]

(ii) Find $\mathrm{f}''(x)$ and hence, or otherwise, determine the nature of each stationary point. [3]

(iii) It is given that the curve $y = \mathrm{f}(x)$ passes through the point $(4, -7)$. Find $\mathrm{f}(x)$. [4]