

A function f is defined for $x > \frac{1}{2}$ and is such that $f'(x) = 3(2x - 1)^{\frac{1}{2}} - 6$.

(i) Find the set of values of x for which f is decreasing.

[4]

[illegible]

(ii) It is now given that $f(1) = -3$. Find $f(x)$.

[4]

[illegible]