6 The function f is defined by $f : x \mapsto \dfrac{x+3}{2x-1}, \ x \in \mathbb{R}, \ x \neq \frac{1}{2}.$

    (i) Show that $ff(x) = x.$ [3]

    (ii) Hence, or otherwise, obtain an expression for $f^{-1}(x).$ [2]