## Question 1 (9 marks)

(a) For each of the functions below, determine $f^{\prime}(x)$. You do not need to simplify your answers.
(i) $\quad f(x)=\left(2 x^{5}+7\right)^{3}$.

(ii) $f(x)=3 \ln (8 x+1)+9 \sqrt{x}$.

(iii) $f(x)=\frac{11-5 x}{1+\cos x}$.


