

9 The function f is defined for all real values of x as $f(x) = c + 8x - x^2$, where c is a constant.

(i) Given that the range of f is $f(x) \leq 19$, find the value of c . **[3]**

(ii) Given instead that $ff(2) = 8$, find the possible values of c . **[4]**