

PROBLEMS: PART 1

1. A function f is defined on the interval $[0, 1]$ by $f(x) = x^2 + 2x - 1$. Find the maximum and minimum values of f on $[0, 1]$.

2. A function f is defined on the interval $[0, 2]$ by $f(x) = x^3 - 3x^2 + 2x$. Find the maximum and minimum values of f on $[0, 2]$.

3. A function f is defined on the interval $[0, 3]$ by $f(x) = x^3 - 3x^2 + 4x - 1$. Find the maximum and minimum values of f on $[0, 3]$.



4. A function f is defined on the interval $[0, 4]$ by $f(x) = x^3 - 6x^2 + 8x$. Find the maximum and minimum values of f on $[0, 4]$.



5. A function f is defined on the interval $[0, 1]$ by $f(x) = x^2 + 2x - 1$. Find the maximum and minimum values of f on $[0, 1]$.

6. A function f is defined on the interval $[0, 2]$ by $f(x) = x^3 - 3x^2 + 2x$. Find the maximum and minimum values of f on $[0, 2]$.

7. A function f is defined on the interval $[0, 3]$ by $f(x) = x^3 - 3x^2 + 4x - 1$. Find the maximum and minimum values of f on $[0, 3]$.



8. A function f is defined on the interval $[0, 4]$ by $f(x) = x^3 - 6x^2 + 8x$. Find the maximum and minimum values of f on $[0, 4]$.

