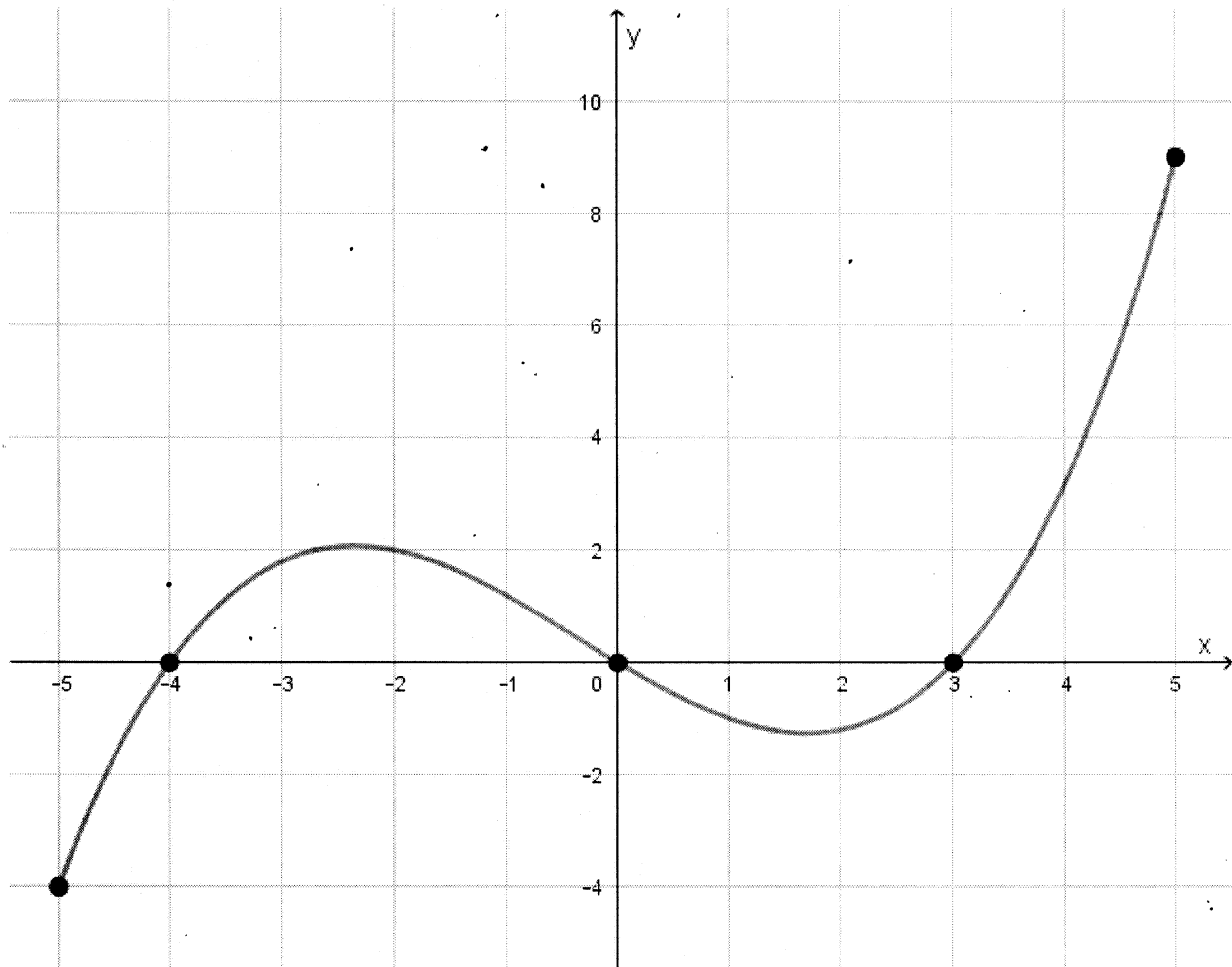- The graph of the function f is shown below. Determine the domain and range of f. Determine intervals on which $f(x) > 0$ and intervals on which $f(x) < 0$. Determine open intervals on which f is increasing/decreasing. Determine any local minima or maxima.

- DOMAIN = $[-5, 5]$

- RANGE = $[-4, 9]$

- $f(x) > 0$ ON $(-4, 0) \cup (3, 5]$

- $f(x) < 0$ ON $[-5, -4) \cup (0, 3)$

- f IS INCREASING ON ABOUT $(-5, -2.5) \cup (1.5, 5)$

- f IS DECREASING ON ABOUT $(-2.5, 1.5)$

- LOCAL MIN : $y \approx -1$ AT $x \approx 1.5$

- LOCAL MAX : $y = 2$ AT $x \approx -2.5$