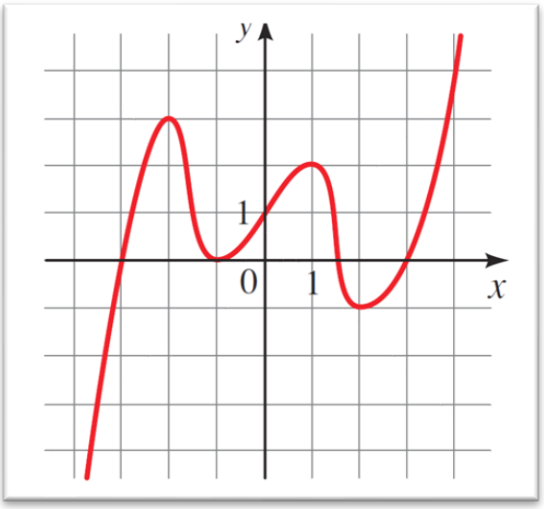
Quiz – 02

MATH-116

1. a. Find the domain of $f(t) = \frac{\sqrt{t-5}}{2t-14}$. **(2+4)**

b. If $f(x) = 4x^2 - x$, then find the equation of the secant line containing the point $(1, f(1))$ and $\big(2, f(2)\big)$.

2. Use the graph of the function f, find the followings: **(6)**



a. The domain and range of f.
b. The intervals on which f is increasing, decreasing or constant.
c. The local maximum and minimum values.
d. The absolute maximum and minimum values.

3. From the graph, identify the following piecewise function

$$f(x) = \begin{cases} ? & if\ x \le -2 \\ ? & if\ -2 < x \le 2 \\ ? & if\ x > 2 \end{cases}$$

(3)