

MATH19501 Quiz 2 - Winter 25

Name: _____

EMPLID: _____

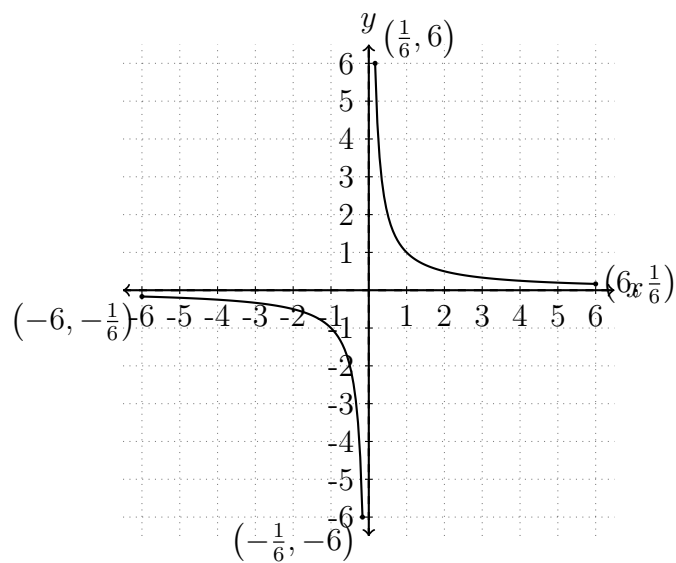
Answer all 4 questions. You must show all of your work as neatly and clearly as possible and indicate the final answer in the provided region for each non-graph question. For all graph questions, you should sketch your graph on the grid provided.

1. Find the domain of the function $f(x) = 3\sqrt{x-5}$. Enter your answer using interval notation. Write your answer in the box below:

2. Find the average rate of change of the function $f(x) = 2x^2 - 9$ on the interval $[0, 2]$. Simplify your answer.

Write your answer in the box below:

3. Use the graph of the function below to find the domain. Express your answer using interval notation.



Write your answer in the box below:

4. Sketch the graph of the piecewise function $f(x)$ on the axes below.

$$f(x) = \begin{cases} 1 & \text{if } x \leq 1 \\ x + 1 & \text{if } x > 1 \end{cases}$$

