

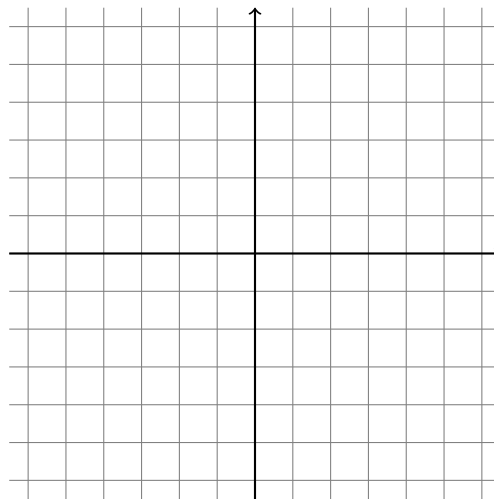
MATH19501 Quiz 4 - Winter 25

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.

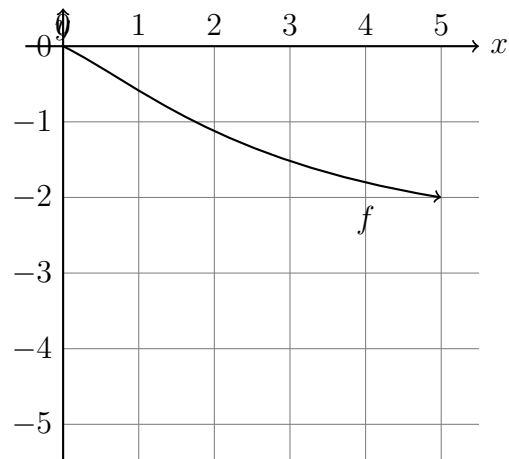
1. Sketch a graph of the function $f(x) = (x - 2)^2 + 2$ as a transformation of the graph of the toolkit function x^2 .



2. Find the x -intercepts of $g(x) = 4|x - 3| + 4$. Write your answers in coordinate point form (x, y) .

Write your answer in the box below:

3. Using the graphs of transformations of the square root function, find a formula for the function $f(x)$.



Write your answer in the box below:

$f(x) =$

4. Sketch the graph of the function $h(x) = |x - 1| - 3$. Label all intercepts on your graph.

