Math 32 Quiz 2
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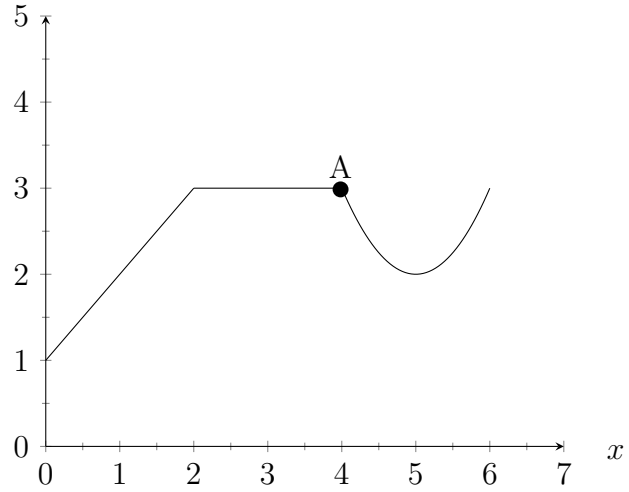
Name: _____

1. Suppose f is a function whose graph is the figure below:

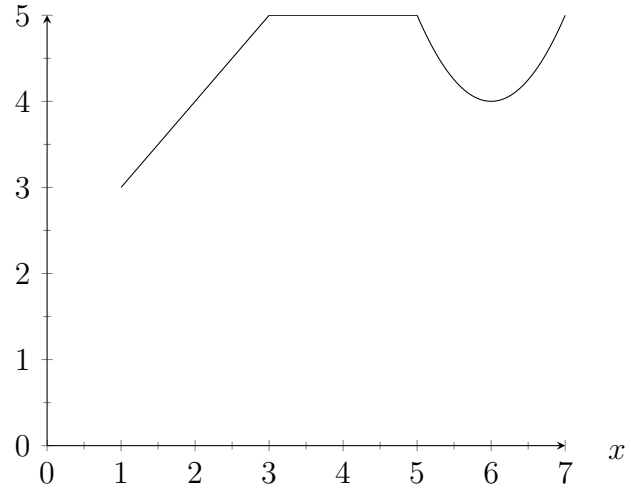


(a) What are the coordinates of the point A? (4,3)

(b) What is the domain of f? [0,6]

(c) What is the range of f? [1,3]

(d) Sketch the graph of $g(x) = f(x-1)+2$.



2. Let $f(x) = 4x + 5$. Find a formula for f^{-1}.

$$x = 4y + 5 \implies f^{-1}(x) = \frac{x - 5}{4}$$

BONUS: Find a formula for the function f in Problem 1.

$$f(x) = \begin{cases} x + 1 & 0 \le x \le 2 \\ 3 & 2 \le x \le 4 \\ (x - 5)^2 + 2 & 4 \le x \le 6 \end{cases}$$