

Name: _____

MATH 101

Fall 2022

HW 7: Due 10/17

*"The irreducible price of learning is
realizing that you do not know."*

—James Baldwin

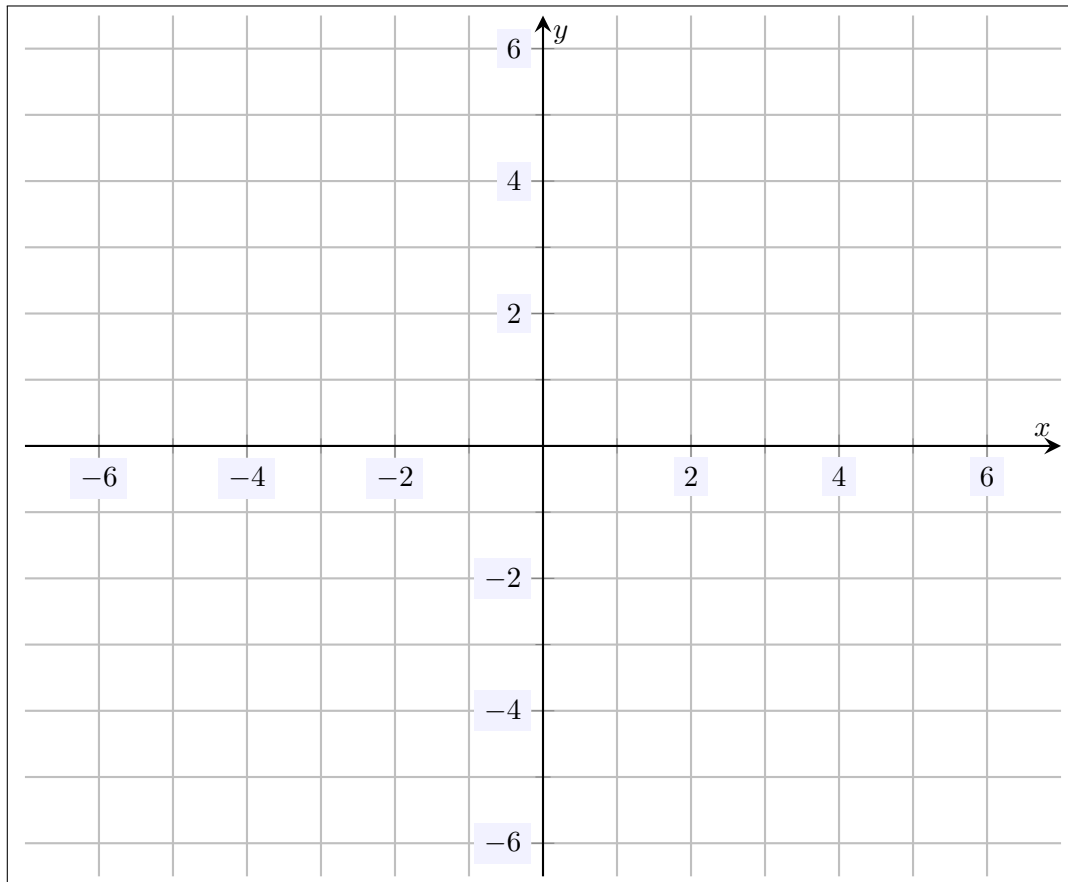
Problem 1. (10pt) Do you think a person's height is a function of time? Do you think a person's salary is a function of their body temperature? For each, explain why or why not.

Problem 2. (10pt) Determine if the relations $f(x)$ and $g(x)$ shown below are functions. Explain why or why not. If the relation is a function, compute the functions value at $x = -4.1$.

$$f(x) = 198.3 - 17.3x$$

$$g(x) = 4x^2 + 16.1x - 10.3$$

Problem 3. (10pt) Plot the function $f(x) := \frac{1}{2}x - 5$, being as accurate as possible.



Problem 4. (10pt) Plot the function $f(x) := -x^2 + 4x - 1$, being as accurate as possible.

