

Name: \_\_\_\_\_

MATH 111-I

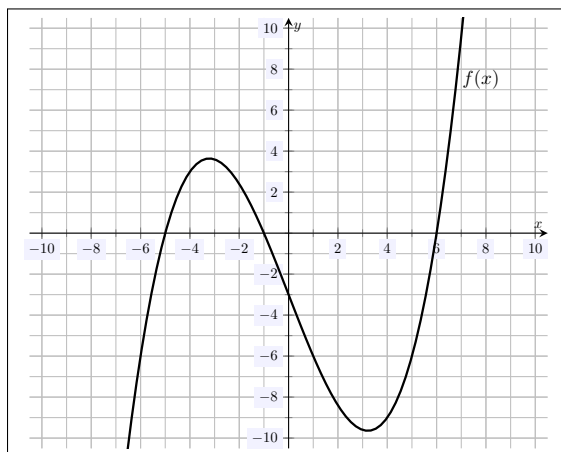
Spring 2025

Quiz 2

**Problem 1:** Suppose an item that costs  $p$  dollars is discounted by 30%. Find an expression that gives the discounted cost of the item.

**Problem 2:** Is  $x = -2$  a solution to the equation  $\frac{2x - 1}{x + 1} = x^2 + 1$ ? Explain.

**Problem 3:** Consider the function  $f(x)$  plotted below.



(a) Find the  $x$ -intercepts.

(b) Find the  $y$ -intercepts.

(c) What is  $f(7)$ ?

(d) Solve the equation  $f(x) = -6$ .