

Name: _____

MATH 101

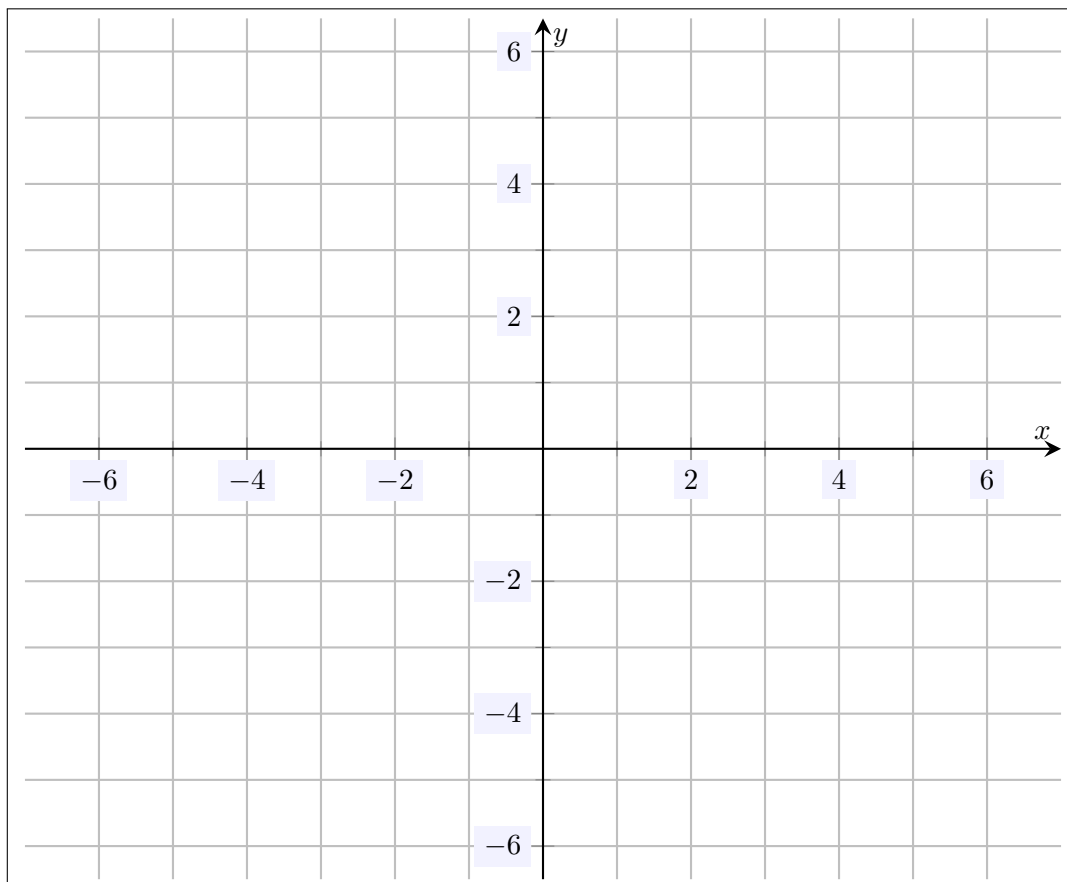
Fall 2021

HW 8: Due 10/29

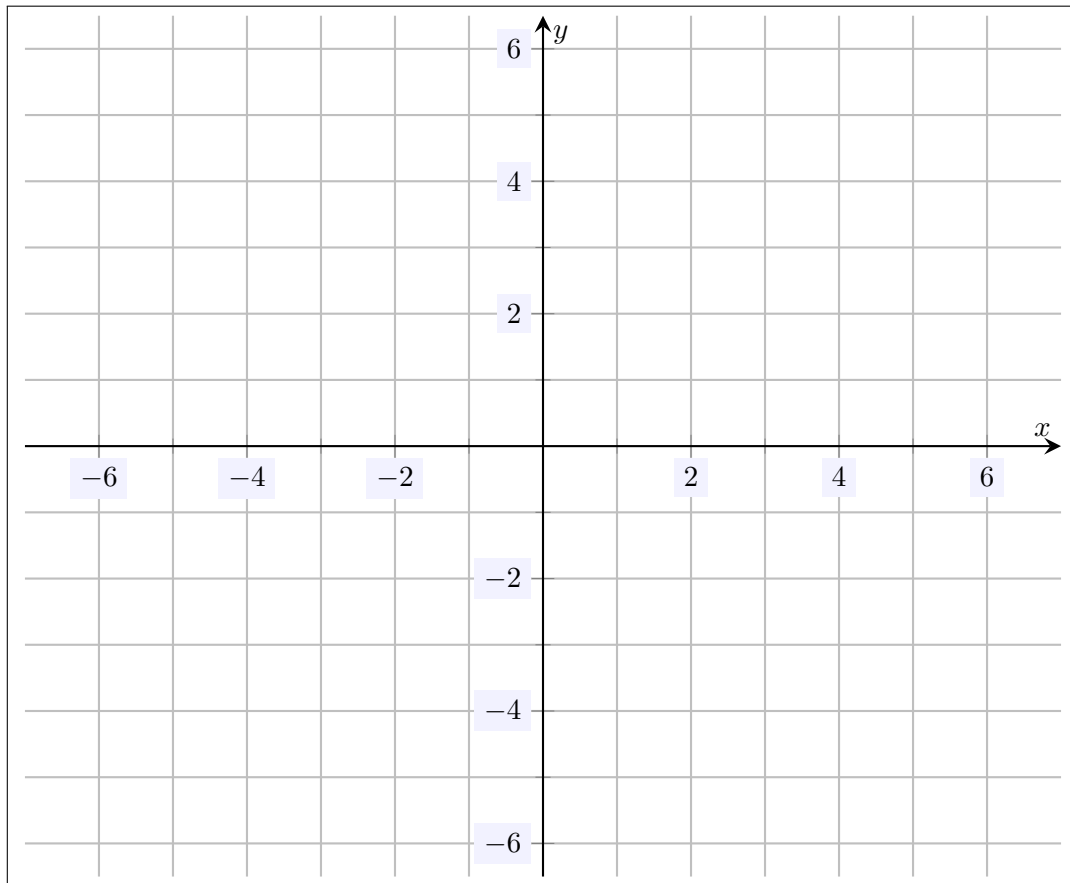
*"The world is a stage, but the play is
badly cast."*

—Oscar Wilde

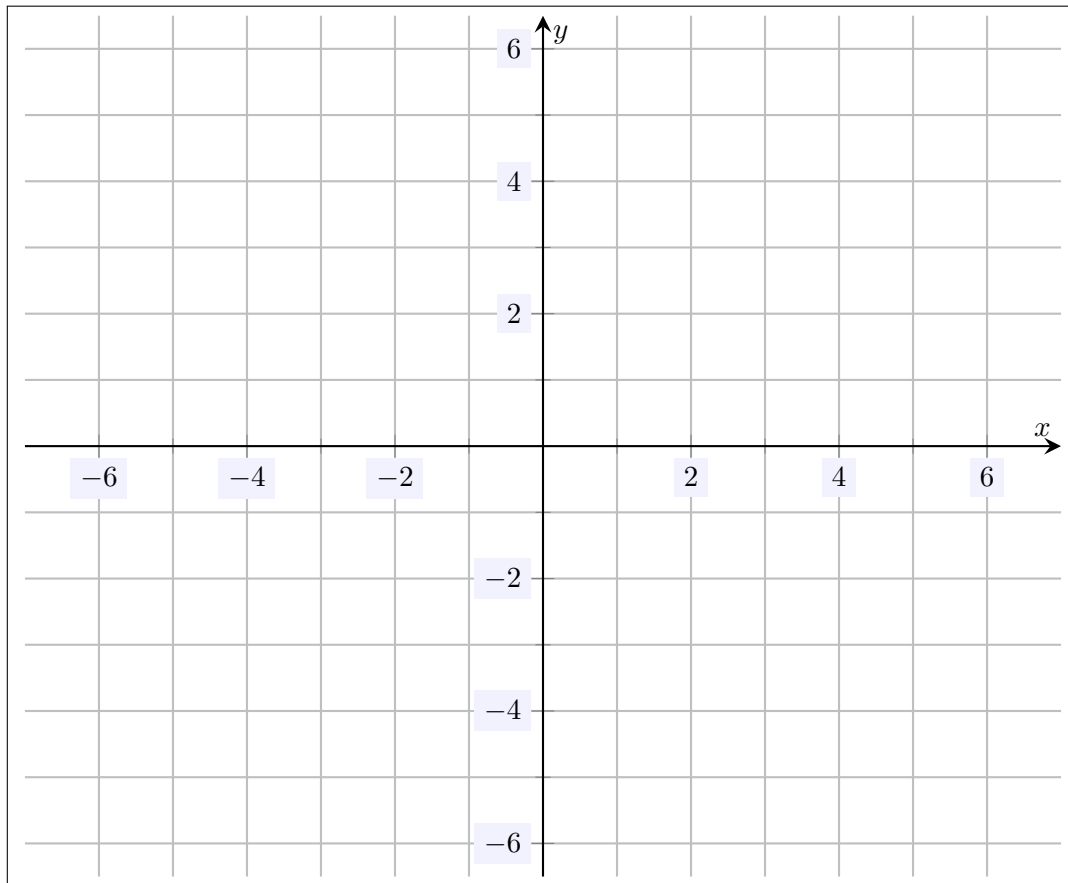
Problem 1. (10pt) Plot the quadratic function $y = 2x^2 - 4x + 3$ as accurately as possible. Your sketch should include the vertex and axis of symmetry.



Problem 2. (10pt) Plot the quadratic function $y = -x^2 - 6x - 5$ as accurately as possible. Your sketch should include the vertex and axis of symmetry.



Problem 3. (10pt) Give a rough sketch of the quadratic function $y = 2(x - 1)^2 + 3$. Your sketch should include the vertex and axis of symmetry.



Problem 4. (10pt) Give a rough sketch of the quadratic function $y = 4 - (x + 1)^2$. Your sketch should include the vertex and axis of symmetry.

