

Name: _____

MATH 101

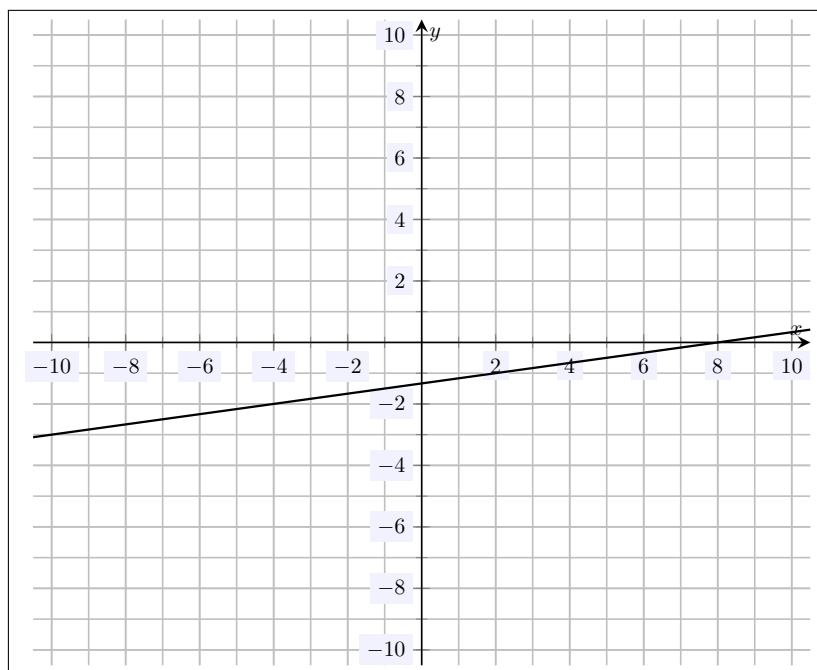
Spring 2024

HW 12: Due 03/20

“Mitchell’s mother has a problem. . . with me. Last Christmas, for example. She gave me a piece of exercise equipment and a lettuce dryer. So, to recap, I gave her a gorgeous pair of diamond earrings and she gave me a hint.”

— Cameron Tucker, *Modern Family*

Problem 1. (10pts) Find the equation of the line plotted below.



Problem 2. (10pts) Find the equation of the following lines:

- (a) The line through $(-1, 1)$ and $(6, -2)$.
- (b) The line containing $(8, -1)$ with slope $\frac{4}{3}$.
- (c) The line with y -intercept 5 and slope -6 .

Problem 3. (10pts) Find the equation of the line with x -intercept -4 and y -intercept 6 .