

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

MATH 101

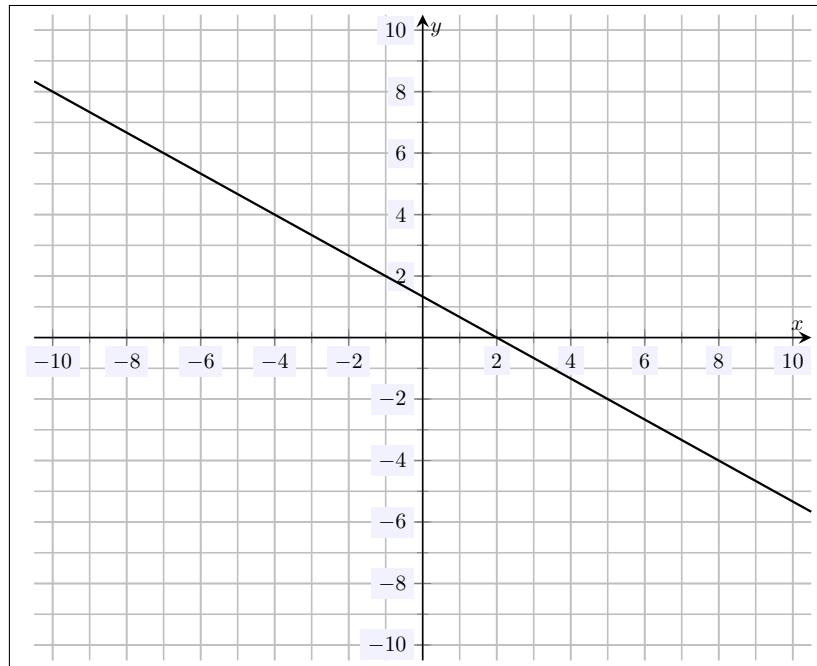
Fall 2023

HW 11: Due 11/06

*"Learning is not attained by chance; it must be sought for with ardor and attended to with diligence."*

*–Abigail Adams*

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



**Problem 2.** (10pt) Find the equation of the line containing the point  $(-5, 6)$  with slope  $-\frac{1}{3}$ .

**Problem 3.** (10pt) Find the equation of the line with  $x$ -intercept 5 and  $y$ -intercept  $-6$ .

**Problem 4.** (10pt) Find the equation of the line parallel to the line  $\ell(x) = \frac{4-x}{6}$  whose  $x$ -intercept is  $(9, 0)$ .