

Name: _____

MATH 101

Fall 2022

HW 12: Due 11/07

"The good thing about science is that it's true whether or not you believe it."

–Neil deGrasse Tyson

Problem 1. (10pt) Consider the line $2x - 5y = 4$.

- (a) Is $(-2, 0)$ on the line? Explain.
- (b) Is $(-3, -2)$ on the line? Explain.
- (c) Showing all your work, find two points, distinct from $(-2, 0)$ and $(-3, -2)$, on the given line.

Problem 2. (10pt) Consider the line $-3x - 5y = 10$.

- (a) Find the slope of the line.
- (b) Find the y -intercept of the line.
- (c) Find this line as a linear function, $f(x)$.
- (d) Using your $f(x)$ from (c), find a point on the line.