MATH 111, Assignment 2 Solutions

Name: Dillon Allen **Date:** 09/01/2021
Group Name: Group 2 (TBA)

1. Determine whether or not the following are staements. In the case of a statement, say if it is true or false.
   (a) Multiply $2x + 2$ by 2.
   Solution: This is not a statement, it is a command or step in solving some sort of equation. There is also ambiguity in what x is defined as, there is not enough context.
   (b) Is $3 \times 6 = 15$?
   Solution: This is not a statement because it is a question.
   (c) The integer 0 is neither even nor odd.
   Solution: This is a statement, but is false because 0 is even. The definition of an even number is any number that can be written in the form $x = 2n, n \in \mathbb{Z}$. Since 0 is an integer, it will be the result of $2 \times 0 = 0$.
   (d) If $p(x)$ is a polynomial of degree 5, then $p'(x)$ is a polynomial of degree 4.
   Solution: Ask Oscar, but I believe this is not a statement because $p'(x)$ is not explicityly defined as the derivative (See 2(g)).