Math 350 – Homework 2

Problem 2.1 # 4 Convert 101001000₂ to decimal notation and 1984₁₀ to binary.

Problem 2.1 # 18 Find the One’s complement representation using bit strings of length six, of the following integers.
a) 22, b) −7, c) 31, d) −19
(Read about the one’s complement in the book right before this problem).

Problem 2.2 # 14 Subtract CAFE₁₆ from FEED₁₆. Please don’t convert to decimal, subtract, and convert back.

Problem 3.2 # 10 Verify Goldbach’s conjectures for each of the following values of n.
a) 50, b) 98, c) 102, d) 144, e) 200, f) 222.