

Written HW25 – MATH 2510 Spring 2021

Due by 23 April for timely completion credit

Recall that the Gödel numbering is a way to assign numbers to sentences of first order logic (see the 15 April lecture). Consider the following assignment of numbers to the symbols of first-order logic:

Symbol	Number
\forall	1
x	2
y	3
(4
)	5
F	6
\rightarrow	7
a	8
\wedge	9

1. Find the Gödel number for the sentence $\forall x\forall y(F(x) \rightarrow F(y))$
2. Find the super Gödel number of the proof of p.302 #1 from the 6 April notes. (*note: don't worry about the extra vertical line that denotes the subproof, don't worry about line numbers, and don't worry about the justifications for each line*)