Assignment No.1

7th September 2020

Note:

(1)Each question carry 5 marks.
(2)You are given 30 minutes to submit this assignment.

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1. Prove the following, giving justification for each step :

$$\neg(\exists x P(x) \wedge \forall y \neg(M(x,y))) \wedge P(a) \rightarrow \exists z M(a,z)$$

2. Use Peano's Axioms to prove the following, giving justification for each step :

$$(2+2) = S(S(S(S(0))))$$

3. Write in your own words (within 100 words) what you think the course is all about.