MA 1	971	Bridge	\mathbf{to}	Higher	Mathematics
		21145		11181101	TITATION

Name:

Quiz 2 D Term, 2021

I affirm that I have not consulted my text, notes or any reference, paper or electronic, or any person once I opened and/or looked at this quiz.

Show all work needed to reach your answers.

1. (5 points) If $S = \{1, \pi, \sqrt{3}\}$, please find the power set of S.

$$\mathcal{P}(S) =$$

2. (10 points) Suppose that A, B and C are all subsets of some universe U. Please show that

$$A \cap (B \cup C) \subset (A \cap B) \cup (A \cap C)$$

3. (10 points) Pleases use induction to show that $2+4+6+\ldots+2n=n(n+1)$.