

Good Job! 13/12/17

Instruction

- Answer all questions. Write your answer in the spaces provided.
- Show your working. You may use a ~~non~~ programmable scientific calculator.

1). Classify whether the following sentences are a proposition or not proposition.

a) Next year is 2018.

- Proposition

b) Perak is the biggest state in Peninsular Malaysia.

- ~~Not~~ proposition

c) What is your uncle's name?

- Not proposition.

d) $6 + 2x = 9$

- Not proposition.

e) Don't miss me too much!

- ~~Not~~ proposition.

f) Potato ~~the~~ chip is the most delicious food in the world.

- Proposition

g) What is your favorite colour?

- Not proposition.

h) I love teddy bear!

- Proposition

i) $4m + 2 > 12$ if $m = -2$.

- Proposition.

Subject:.....

c) Construct a truth table for the proposition $(p \vee \sim q) \wedge r$.

p	$\sim q$	r	$\sim q$	$p \vee \sim q$	$(p \vee \sim q) \wedge r$
T	T	T	F ✓	T ✓	T ✓
T	T	F	F ✓	T ✓	F ✓
T	F	T	T ✓	T ✓	T ✓
T	F	F	T ✓	T ✓	F ✓
F	T	T	F ✓	F ✓	F ✓
F	T	F	F ✓	F ✓	F ✓
F	F	T	T ✓	T ✓	T ✓
F	F	F	T ✓	T ✓	F ✓