

Midterm 1 Version 1 Review 2

July 17, 2020

1. a) $aaa, aab, aac, bba, bbb, bbc, cca, ccb, ccc$

b) **Solution:**

p	q	r	$p \vee q$	$(p \vee q) \Rightarrow \neg r$
T	T	T	T	T
T	T	F	T	F
T	F	T	T	T
F	T	T	T	T
T	F	F	T	F
F	T	F	T	F
F	F	T	F	T
F	F	F	F	T

c) $\exists x \in \mathbb{N}, \forall y \in \mathbb{N}, \neg P(x, y) \wedge \neg Q(x, y)$