Name:		CompID:
CS 2102 - DMT1 - Spring 2020 — Administered in class friday ma		Quiz 0
PROBLEM 1 Convert to prose		
S: the set of all snakes $R$ : the set of all rabbits $E(x,y)$ : $x$ eats $y$ $Y(x)$ : $x$ is yellow Convert the following to simple	e, readable English:	
1. $\exists r \in R : \forall s \in S : (E(s, r) \to \neg$	Y(s))	
PROBLEM 2 Primes and factors		
2	is the prime factorization of 18	
3	is the prime factorization of 81	
4.	is the prime factorization of $9^{10}\cdot$	6 <sup>20</sup>
5	is the set positive 1-digit numbers	s relatively prime with 10

## PROBLEM 3 Proof by contradiction

Prove the following using proof-by-contradiction. You may use prose or symbols or any readable mix of the two.
6.  $\frac{7}{3} \notin \mathbb{Z}$ 

Proof.