Name:					
NetID:		Lecture:		\mathbf{A}	В
Discussion:	Monday & Wednesday	1:30	2:30		

1. (5 points) State the negation of the following claim, moving all negations (e.g. "not") so that they are on individual predicates.

For every tiger k, if k is orange, then k is large and k is not friendly.

2. (5 points) State the contrapositive of the following claim, moving all negations (e.g. "not") so that they are on individual predicates.

For every tiger k, if k is orange, then k is large and k is not friendly.

3. (5 points) Find all integer solutions to the equation $2p^2 + 5p = 3$. Show your work.

Name:

NetID:_______ Lecture:

Discussion: Monday & Wednesday 1:30 2:30

1. (5 points) Simplify, showing your work. $25 \times 2^{-3\log_2(5)} =$

2. (10 points) Check the (single) box that best characterizes each item.

Shorthand for the set of integers.

т	
ll l	
a)	

$$\mathbb{N}$$

 \mathbf{B}

 \mathbf{A}

$$\mathbb{Z}$$

If U. Illinois is in Paris, then $\pi < 0$.

true	

false

undefined

 $\lfloor -3.4 \rfloor$

-3

-4

3.4

undefined

$$\neg(p \land \neg q) \equiv \neg p \lor q$$

true

false

$$p \to q \equiv \neg p \to \neg q$$

true

false