n) p:
$$(\forall x \in R) (\exists n \in R) (x + 3 > n \rightarrow n < 10)$$

$$(A = -p((\exists x \in \mathbb{Z})(\forall n \in \mathbb{N})(x+3 \leq n \vee n \geq 10))$$

$$5i \times = 6 : (x + 3) = (6 + 3 = 9 \le 10 \lor 10 \le 10) = v$$

 $6 + 3 \le 10$

Sea-p=
$$(x + 3 \le n)$$
, $(6+3=9 \le 10)$
" $-q = (n \le 10)$

Se requiere
$$(\neg p \cup \neg q) = (p - p q)$$
 Sea $x = 6$ y $n = 10$
Some $\neg q = (n \le 10)$
 $\neg q = (1 \le 10) = V$

Disyunción requiere de py q Falso para que el osea Falso (A) of (~qv~q)=V, enlonces of (p-)=F

A) Determinar Valor de verdad

- B) Negar proposición
- C) Contrareciproco

2)
$$A = \frac{7}{x} |_{x} = 5n+2, n \in \mathbb{N}$$

$$n = 10$$

 $x = 5.10 + 2$
 $x = 52$

Mal p: $(\forall x \in R)(\exists n \in N)(x+3>n \rightarrow n < n0)$ $-p:(\exists x \in R)(\forall n \in N)(x+3 \leq n \vee n \geq n0)$ sea $x = 4 \wedge n = 9 \rightarrow (4+8=7 \leq 9 \vee 9 \geq n0)$ bomo $x+3=7 \leq 9 = 0$, se demuestra un valor de veroled

Por enole la proposición p: es Falsa.

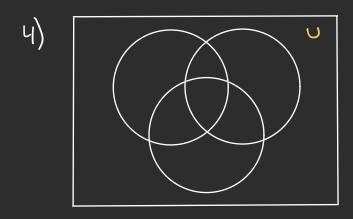
b) -ρ: (∃x e R) (∀n eN)(x+3 < n v n ≥ no)

c) Contrare cipioco:

2) a | A = 1 x | x = 5n+2, n E W &

b) B= { x + 3 | 2 < x < n2, n & w { B= {4,5,6,7,8,9,10,11}}

3) e) 3 e 136 = V b) 5 = 156 = F c) 166 c 11688 = U



Mal p: $(\forall x \in R)$ (∃n ∈ N) $(x+3>n \rightarrow n < n0)$ -p: $(\exists x \in R)$ (∀n ∈ N) $(x+3 \le n \lor n \ge n0)$ sea x = 4 ∧ $n = 9 \rightarrow (4+8=7 \le 9 \lor 9 \ge n0)$ lomo $x+3=7 \le 9= \lor$, se demuestra un valor de veroled Por enole /a proposición p: es Falsa.