6.035 Spring 2016 Test II

I) /, A) Yes. (2,2)
(1,2) (2,1)

- B) Yes.
- 2. A) No.

Not antisymmetric: $(1,2) \leq (2,1)$ $(2,1) \leq (1,2)$ $(1,2) \neq (2,1)$

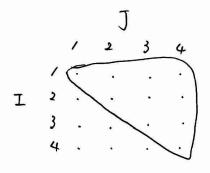
Not transitive: $(2,2) \preceq (1,2) - (1,2) \preceq (1,1)$ $(2,2) \preceq (1,1)$

B) No, not partial order.

3. A) No, not reflexive : (2,2) (2,2)B) No, not partial order

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t. Yes, any subset $S \subseteq P$ has VS and ΛS .



B)
$$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$$

C) Yes, J.

13. A) $\begin{cases} 1 \leq i\omega \\ 1 \leq ir \end{cases}$
 $i\omega \leq 5$
 $ir \leq 5$
 $i\omega \neq ir$
 $i\omega = 2ir - 1$

B) $\begin{cases} ir = 2 \\ i\omega = 3 \end{cases}$

B)
$$\begin{cases} ir = 2 \\ i\omega = 3 \end{cases}$$
 $\begin{cases} ir = 3 \\ i\omega = 5 \end{cases}$