Name: Demetrius Johnson

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No calculators are allowed. Show your work. The points for each problem are indicated. Problems with incomplete work may receive partial, or no credit.

> COs: [No direct COs]

Points:

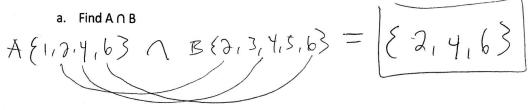
1. [15 pts] Given the following sets, compute the requested set operations

$$A = \{1, 2, 4, 6\}$$

$$B = \{2, 3, 4, 5, 6\}$$

$$C = \{1, 6\}$$

$$D = \{7, 9, 12\}$$



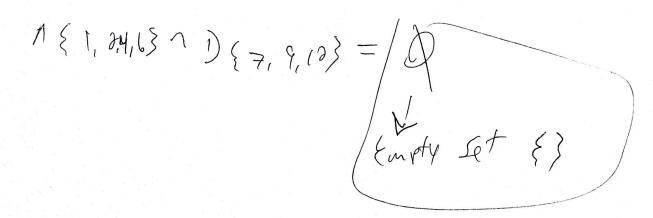
b. Find A∩C



c. Find AUB



d. Find A \(\Omega\) D



2. [5 pts] Find the truth value of the following compound proposition, given the following simple propositions:

A = The Sun is hot

B=4>9 = F

C = Water is wet = T

V = Or

Compound proposition: (A \lor B) \land C

 $\Lambda =$

(TVF)

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