Name: Matthew Mendo Za

1) Let $A = \{2n : n \text{ is an integer}\}\$ and $B = \{1, 2, 3, 4, 5\}$. Find

A-) 62, 4, 6, ... 3

Intersection

e AMB= 52,43

2) For $1 \le i \le 10$, let $A_i = \{1, 2, ..., i\}$. Determine

No mention $\bigcup_{i=1}^{10} A_i$.

of disjoint set so.

10 Ai = \$1,2,3,4,5,6,7,8,9,103 i=1 (1,2,3,4,5,6,7,8,9,103)

= 0

3) Suppose $A = \{0,3,6,9,12,15,18\}$ and $B = \{0,2,4,6\}8\}$. Find $A \cup B$ and $A \cap B$. Tonion AUB = {0,2,3,4,6,8,9,12,15,18} Interselden A1B=30,63

4) Suppose A and B are disjoint sets with |A| = 5 and |B| = 3. Determine $|A \cup B|$.

$$A = \{1, 2, 3, 4, 5\}$$

$$B = \{6, 7, 8\}$$

$$|AUB| = \{1, 2, 3, 4, 5\}$$

Suppose that A and B are sets with |A| = 5 and |B| = 3. Can you say anything about

That [AUB] is the Sum of # 1A1 and 1B1.
Both only when disjoint AUBI could be 5,6,7, or 8