$$S = 1 + 2 + ... + n - 1 + n$$

$$S = n + n - 1 + ... + 2 + 1$$

$$2S = (n+1) + (n+1) + ... + (n+1)(n+1)$$

$$2S = n (n+1)$$

$$S = n (n+1)/2$$

$$S = n (n+$$

Function or Not?	Venn Diagram
y= 2x-3 -> Function	
$y = x^2 \longrightarrow \text{Function}$ $X = y^2 \longrightarrow \text{Not a fine}$	C) 5 a 2 C3
Function Notation	d) { a, b, c, f, 93 e { d }
f(x) = 2x - 5 and $f(3)$	Intersection
find $f(3)$ $f(3) = 2(3) - 5$	a) {7,8,9,t0,13 {6,8,10,12}} = {8,103
(3,1)	b) = Ø い Ø
Universal Sets	Example 6 AUB = 21,3,7,8,9,103
U A SM	AUB' = { 2, 4, 5, 6}
a. $U = \{0, \Delta, \$, M, 5\}$	b) A1 = \( \frac{2}{2},
b) $A = \{0, \Delta\}$ c) $\{\$, M, 5\}$	A'UB' = \2,4,5,63

Example 8

$$n(AUB) = n(A) + n(B) - n(ANB)$$
 $= 490 + 340 - 120$ 
 $= 830 - 120$ 
 $= 710$