



BAAP OF ALL FORMULA LISTS





FOR IIT JEE





SETS

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SL#	FORMULA
1	$A \subset I$
2	$A \subset A$
3	$A = B$ if $A \subset B$ and $B \subset A$.
4	Empty Set $\emptyset \subset A$
5	Union of Sets $C = A \cup B = \{x \mid x \in A \text{ or } x \in B\}$
6	Commutativity $A \cup B = B \cup A$
7	Associativity $A \cup (B \cup C) = (A \cup B) \cup C$
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8	Intersection of Sets $C = A \cap B = \{x \mid x \in A \text{ and } x \in B\}$
9	Commutativity $A \cap B = B \cap A$
10	Associativity $A \cap (B \cap C) = (A \cap B) \cap C$
11	Distributivity $A \cup (B \cap C) = (A \cup B) \cap (A \cup C),$ $A \cap (B \cup C) = (A \cap B) \cup (A \cap C).$
12	Idempotency $A \cap A = A,$ $A \cup A = A$
13	Domination: $A \cap O = O,$ $A \cup I = I$
14	Identity

	$A \cup O = A,$ $A \cap I = A$
15	Complement $A' = \{x \in I \mid x \notin A\}$
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16	Complement of Intersection and Union $A \cup A' = I,$ $A \cap A' = \emptyset$
17	DeMorgan's Laws $(A \cup B)' = A' \cap B',$ $(A \cap B)' = A' \cup B'$
18	Difference of Sets $C = B \setminus A = \{x \mid x \in B \text{ and } x \notin A\}$
19	$B \setminus A = B \setminus (A \cap B)$
20	$B \setminus A = B \cap A'$
21	$A \setminus A = \emptyset$
22	$A \setminus B = A$ if $A \cap B = \emptyset$
23	$(A \setminus B) \cap C = (A \cap C) \setminus (B \cap C)$
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24	$A' = I \setminus A$
25	Cartesian Product $C = A \times B = \{(x, y) \mid x \in A \text{ and } y \in B\}$
26	Natural numbers Counting numbers: $N = \{1, 2, 3, \dots\}.$
27	Whole numbers Counting numbers and zero: $N_0 = \{0, 1, 2, 3, \dots\}.$
28	Integers Whole numbers and their opposites and zero:

	$Z^+ = N = \{1, 2, 3, \dots\},$ $Z^- = \{\dots, -3, -2, -1\},$ $Z = Z^- \cup \{0\} \cup Z^+ = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}.$
29	Rational numbers: Repeating or terminating decimals: $Q = \left\{x \mid x = \frac{a}{b} \text{ and } a \in Z \text{ and } b \in Z \text{ and } b \neq 0\right\}.$
30	Irrational Numbers: Nonrepeating and nonterminating decimals.
31	Real Numbers: Union of rational and irrational numbers: R.
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32	Complex Numbers: $C = \{x + iy \mid x \in R \text{ and } y \in R\}$, where i is the imaginary unit.
33	$N \subset Z \subset Q \subset R \subset C$
34	Additive Identity: $a + 0 = a$
35	Additive Inverse: $a + (-a) = 0$
36	Commutative of Addition: $a + b = b + a$
37	Associative of Addition: $(a + b) + c = a + (b + c)$
38	Definition of Subtraction: $a - b = a + (-b)$
39	Multiplicative Identity: $a \cdot 1 = a$
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40	Multiplicative Inverse: $a \cdot \frac{1}{a} = 1, a \neq 0$
41	Multiplication Times 0 $a \cdot 0 = 0$
42	Commutative of Multiplication $a \cdot b = b \cdot a$
43	Associative of Multiplication $(a \cdot b) \cdot c = a \cdot (b \cdot c)$
44	Distributive Law $a(b + c) = ab + ac$

Definition of Division


$$\frac{a}{b} = a \cdot \frac{1}{b}$$

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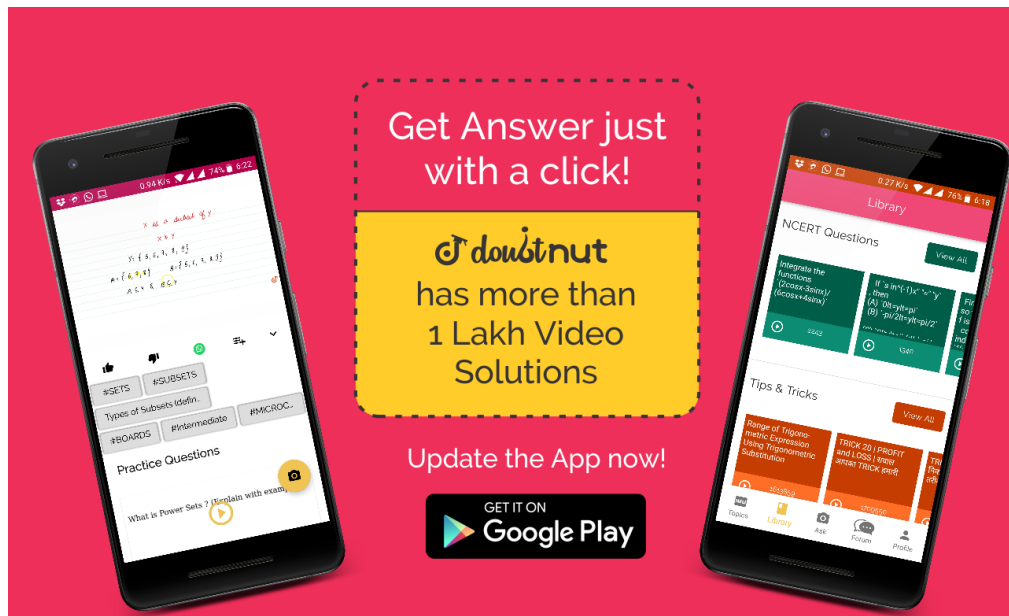
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