



MEGA REVIEW and TUTORIAL CENTER

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Review Module Algebra 1- (Part 1)

1.01 SET THEORY

SET- A set is a gathering together into a whole of definite, distinct objects of our perception or of our thought—which are called elements of the set
Cardinality of a set- "the number of member of 'S' usually denoted as $|S|$ or $n(S)$

Special Sets

$\{\}$ or $\emptyset$ - Null Set or empty Set

$\{x\}$ or x - unit set, which contains exactly one element

P- set of all prime numbers **N**- the set of all natural numbers

Z- the set of all integers **Q**- the set of all rational numbers

R- the set of all real numbers **C**- the set of all complex numbers

H- denotes the set of all quaternions

UNION

The union of A and B denoted as $A \cup B$ is the set of all things that are members of A or B

INTERSECTION

The intersection of A and B denoted by $A \cap B$ is the set of all things that are members of A and B

Problem 1

Let

$U = \{1,2,3,4,5, \dots, 10\}$, $A = \{1,2,4,6,8,10\}$, $B = \{1,3,6,9\}$,

$C = \{1,2,3,8,9,10\}$

a) $A \cap B$

b) $B \cap C$

c) $A \cap C$

d) $A \cup B$

e) $A \cap B \cap C$

f) $(A \cup B \cup C)'$

Problem 2.

Determine the Equivalent set for the following

a) $A \cup A'$

b) U'

c) $(A \cup B) \cap B$

d) $A \cap A'$

e) $(A \cup B)' \cap (A \cap B)$

1.02 PRINCIPLE OF INCLUSION AND EXCLUSION

Provides an organized method to find the number of elements in the union of a given group of sets, the size of each set, and the size of all possible intersections among the sets

$$\left| \bigcup_{i=1}^n A_i \right| = \sum_{i=1}^n |A_i| - \sum_{i < j} |A_i \cap A_j| + \sum_{i < j < k} |A_i \cap A_j \cap A_k| - \dots + (-1)^{n-1} |A_1 \cap \dots \cap A_n|$$

1. A certain airplane that arrives in NAA, is boarded by 180 tourists. If 50 tourists will go to the beach, and 60 tourists will go trekking, and 100 tourists will neither go to the beach or trek. Determine the total number of tourists that will go to the beach and will go trekking.

2. A certain all boys classroom, 36 are Handsome, 48 are Rich kids and 57 are Single. 21 are Handsome and Single, 11 are Handsome and Rich, 31 are Single and Rich, 1 is neither Handsome or Rich kid or Single. Determine how many were Handsome and Rich kids and Single, if the total number of boys in the classroom is 80.

3. My students in the review class are very talented they are Dancer, Singer, Acrobat and Magician. 111 are Dancer, 111 are Singer, 109 are Acrobat, and 71 are Magicians. 48 are Dancer and Singer, 21 are Dancer and Acrobats, 43 are Dancer and Magicians, 61 are Singer and Acrobats, 23 are Singer and Magicians, 31 are Acrobats and Magicians. 18 takes Dancer, Singer and Acrobats, 20 are Dancer, Singer and Magicians, 13 are Dancer, Acrobats and Magicians, 13 are Singer, Acrobats and Magicians. If there are 229 students all in all. Find the number of students that can perform all of four.

1.03 THEORY OF EQUATION

1. When the polynomial $3x^3 + ax^2 + bx + c = 0$, is divided by $x + 2$ gives the remainder of -21, and by $x + 1$ gives -2, and by $x + 4$ gives -179. Determine the value of a, b and c.

2. Which of the following is one of the factors of $x^3 + 5x^2 + 2x - 8$?
A. $x+3$ B. $x-3$ C. $x-2$ D. $x+2$

3. Which of the following is least integral Upper Bound for the real roots of $4x^3 + 8x^2 - 59x - 63 = 0$

4. Which of the following is a Greatest Integral Lower Bound for the roots of $4x^3 + 8x^2 - 59x - 63 = 0$

Descartes rule of sign.

The rule states that if the terms of a single-variable polynomial with real coefficients are ordered by descending variable exponent, then the number of positive roots of the polynomial is either equal to the number of sign differences between consecutive nonzero coefficients, or is less than it by an even number. Multiple roots of the same value are counted separately.

5. Determine the possible number of positive roots and possible number of negative roots of the equation. $x^4 - 7x^2 + x - 1 = 0$.

6. Determine all the roots of $x^4 - 7x^2 + x - 1 = 0$.

1.04 WORDED PROBLEMS INVOLVING POLYNOMIALS

1. You are designing candle making kits. Each kit contains 25 cubic inches of candle wax and a mold for making a pyramid-shaped candle. You want the height of the candle to be 2 inches less than the length of each side of the candle's square base. What should the dimensions of your candle mold be?

2. You want to make an open box from a rectangular piece of material, 15 centimeters by 9 centimeters, by cutting equal squares from the corners and turning up the sides. Determine the dimension so that the volume is 55 cu.cm.

3. A hockey team plays in an arena that has a seating capacity of 15,000 spectators. With the ticket price set at \$14, average attendance at recent games has been 9500. A market survey indicates that for each dollar the ticket price is lowered, the average attendance increases by 1000. What ticket price is so high that no one attends and so no revenue is generated?

4. A market analyst working for a small appliance manufacturer finds that if the firm produces and sells x blenders annually, the total profit (in dollars) is

$$P(x) = 8x + 0.3x^2 - 0.0013x^3 - 372$$

How many blenders must the firm produce to break even?

5. The rabbit population on a small island is observed to be given by the function.

$$P(r) = 120r - 0.4r^2 + 1000$$

When does the rabbit population disappear from the island?

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Fabio Gadducci, Mirko Tavosanis



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