



## ALGEBRA 02 LECTURE

1. In the binomial term,  $(x^2 + 2y)^{12}$ , find the following.
  - a. Term involving  $y^5$
  - b. 6<sup>th</sup> term
  - c. Sum of the coefficients
  - d. Sum of the exponents
  - e. Middle term
2. What is the sum of the coefficients in the expansion of  $(2x + 3y - z)^8$ 
  - a. 0
  - b. 1
  - c. 32
  - d. 1024
- 3A. Find the sum of the coefficients in the expansion of  $(x + 2)^6$ 
  - a. 105
  - b. 219
  - c. 211
  - d. 665
- 3B. What is the sum of the coefficients of the expression of  $(2x - 1)^{20}$  ?
  - a. 0
  - b. 4
  - c. 1
  - d. 20
4. Determine the middle term in the expansion of  $(\sqrt{x} - \frac{1}{\sqrt{x}})^6$ 
  - a. -20
  - b. -1
  - c. 1
  - d. 12
5. What is the coefficient of  $(x+y)^{20}$  containing the term  $x^7y^3$  ?
  - a. 120
  - b. 140
  - c. 60
  - d. 240
6. A binomial term,  $(2x + \frac{1}{2x})^6$  is given. Find the following:
  - a. Term involving  $x^{-2}$
  - b. Coefficient of the term  $x^4$
  - c. Constant term

7. Find the sum of the exponents for  $(3x^3 + 2y^4)^{12}$ 
  - a. 384
  - b. 546
  - c. 385
  - d. 245
8. Solve the value of n in the expansion of  $(x^2 + \frac{1}{x})^n$  if the 5<sup>th</sup> term is  $210x^8$ .
  - a. 20
  - b. 10
  - c. 5
  - d. 7
9. If the coefficient of  $x^7$  and  $x^8$  in  $(2 + \frac{x}{2})^n$  are equal, then n is equal to:
  - a. 15
  - b. 45
  - c. 56
  - d. 55

## AGE PROBLEMS

10. Dave Parrera was 6 times as old as Linuel Nueva 6 years ago. Four years from now Dave will be 4 times as old as Linuel. How old is Linuel now?
11. Two times Ruffiel's age is 8 more than six times the age of his special friend Sweden. Ten years ago, the sum of their ages is 44. How old is Sweden now?
  - a. 18
  - b. 20
  - c. 15
  - d. 16
12. If Gerome was four times as old as Kelvin in 8 years ago, and if Gerome will be twice as old as Kelvin in 8 years hence, find the age of Kelvin.
  - a. 16
  - b. 40
  - c. 38
  - d. 12
13. Mary is 24 years old. Mary was twice as old as Ann was when Mary was old as Ann is now. How old is Ann?
  - a. 16
  - b. 28
  - c. 20
  - d. 12



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**CL Gary**



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*Math Is Easy So Easy, Combo Book: 7th Grade Math, Algebra I, Geometry I, Algebra II, Math Analysis, Calculus* Nathaniel Max Rock,2008-02 Rock separates math topics into those which are essential and nonessential so that the struggling math student can focus on the math topics which will return the greatest effect in the shortest amount of time

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**Notes on Books** ,1865 Notes on books Longmans, Green and co,1860 *The High School Journal* ,1918

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**Athenaeum and Literary Chronicle** ,1849      **Notes and Queries** ,1856      **Key Maths GCSE** David Baker,2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets

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