

Factorization and Algebraic Manipulation

Sr	Questions	Answers Choice
1	The LCM of 16x ² , 4x and 30 xy is	A. 480 x ³ y B. 240 xy C. 240 x ² y D. 120 x ⁴ y
2	The LCM of $(a-b)^2$ and $(a-b)^4$	A. (a-b)2 B. (a-b)3 C. (a-b)4 D. (a-b)6
3	The factors of $4x^2$ -12 y +9 are	A. (2x +3)2 B. (2x -3)2 C. (2+3x)(2-3x)2 D. (2x-3)(2x+3)
4	What shod be added to complee the square of y4 +81	A. 18 y2 B18y2 C. 9 y2 D. 18y
5	The factor of x^2 - 5 x + 6 are	A. x+1 , x-6 B. x-2, x-3 C. x+6,x-1 D. x+2,x+3
6	What will be added to complete the squae of 9a ² -12 ab?	A16 b2 B. 16 b2 C. 4 b2 D4b2
7	H.C.F.of m-2 and m2+m -6 is	A. m+2 B. m+3 C. m2+m-6 D. m-2
8	Factorization of $x^3 + 3x^2 + 3x = 1$ is	A. (x +1)3 B. (X-1)3 C. (x+1)(x2+x+1) D. (x-1)(x2-x+1)
9	(x+y)(x2-xy+y2)=	A. x3-y3 B. x3+y3 C. (x+y)3 D. (x-y)3
10	L.C.M.of a2-b2 and a4 -b4 is	A. a2+b2 B. a2-b2 C. a4 -b4 D. a-b
11	One of factors of x3 -27 is	A. x-3 B. x+3 C. x ² -3x+9 D. Both a and c
12	The square root of x^2 -6x +9 is	
13	Factors of x4 - y4	A. (x-y)(x+y)(x2+y2) B. (x-y)(x2+y2) C. (x-y)(x+y)(x2-y2) D. (x+y)(x2+y2)
14	H.C.F. of x3 y -xy and x5y2-x2y5 is	A. xy (x2-y2) B. xy(x-y) C. x2y2(x-y) D. xy(x3-y3)
15	Let $5 \times 2 - 17 \times y - 12y2 = A \times B$ if $A = (x - 4y)$ then B is.	A. (5x+3y) B. (5x-3y) C. (5x+3y) D. (5x-4y)
16	Factors of 8x3 -y3 are	A. (2x +y)(4x2+2xy-y2) B. (2x+y)(4x2 -2y +y2) C. (2x-y)(4x2-2xy+y2)

	D. (2x-y)(4x2 +2xy+y2)
Cubic polynomial has degree	A. 1 B. 2 C. 3 D. 4
Find m so that x2 +8 x +m is a complete square	A. 8 B8 C. 4 D. 16
The prodcut of two polynomial is equal to the	A. Sum B. Difference C. Product D. Quotient
H.C.F of 35 a2b2 and 20 a3b3 is	A. 5 a2 b2 B. 20 a 3 b3 C. 35 a5 b5 D. 5 ab