(EMC01-0002M)

- The geometric mean of the roots of the equation $x^2 18x + 9 = 0$ is .
 - A) 3
 - B) $3\sqrt{2}$
 - C) 9
 - D) $9\sqrt{2}$

(EMC01-0004M)

- The value of k for which the quadratic equation $x^2 2x(1+3k) + 7(2k+3) = 0$ has equal roots, is
 - A) 1
 - B) 2
 - Ć) 3
 - D) 4

(EMC01-0006E)

- If a and b are roots of $x^2 px + q = 0$, then $\frac{1}{a} + \frac{1}{b}$ is equal to
 - A) <u>-</u>*p* $\begin{array}{c}
 q \\
 1 \\
 2p \\
 -1 \\
 q \\
 P \\
 q
 \end{array}$ B) C) D)

(EMC01-0008M)

- If 1 i is a root of the equation $x^2 + ax + b = 0$, then b is equal to
 - A) 2 B) 1

 - C) 1 D) 2
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(EMC01-0010H)

- If α and β are the roots of the equation $x^2 + 2x + 4 = 0$, then $\frac{1}{\alpha^3} + \frac{1}{\beta^3}$ is equal to •
 - A) $-\frac{1}{2}$ B) $\frac{1}{2}$ C) $\frac{1}{4}$ D) $\frac{1}{6}$

(EMC01-0012M)

- If the difference of the roots of the equation $x^2 + px + 8 = 0$ is 2, then p equals
 - A) <u>+</u> 2 B) 6, 2

 - C) -2, 6
 - D) <u>+</u>6

(EMC01-0014M)

For what value of *m*, the ratio of the roots of the equation $12x^2 - mx + 5 = 0$ is 3 : 2?

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- A) $5\sqrt{10}$
- B) 10√5
- C) $25\sqrt{2}$
- D) 15√5

(EMC01-0016H)

- The roots of equation $2^{2x} 10.2^{x} + 16 = 0$ are
 - A) 1,3
 - B) 1, 8
 - C) 2, 3 D) 2,8
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(EMC01-0018E)

- Remainder of $x^{64} + x^{27} + 1$ when divided by x + 1 is
 - A) 0
 - B) 1
 - C) 2
 - D) 3

(EMC01-0020E)

- Both the roots of the equation $x^2 x 3 = 0$ are
 - A) real and rational
 - B) real and irrational
 - C) real and equal
 - D) imaginary roots

(EMC01-0022M)

• If one root of equation $x^2 + ax + 12 = 0$ is 4 while the equation $x^2 + ax + b = 0$ has equal roots, then the value of b is



(EMC01-0024M)

- If $\alpha + \beta = 4$ and $\alpha^3 + \beta^3 = 44$, then α , β are the roots of the equation
 - A) $2x^2 7x + 6 = 0$
 - $\overset{'}{\text{B}} 3x^2 12x + 5 = 0$
 - C) $4x^2 + 22x + 15 = 0$
 - D) $9x^2 27x + 20 = 0$

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(EMC01-0026E)

- $x = \frac{-b \sqrt{b^2 4ac}}{-2a}$ is one of the root of:
 - A) $ax^2 bx + c = 0$
 - B) $-ax^2 bx c = 0$ C) $ax^2 bx c = 0$ D) $-ax^2 + bx c = 0$

(EMC01-0028E)

- An equation, which remains unchanged when x is replace by $\frac{1}{x}$ is:
 - A) Exponential equation
 - B) Reciprocal equation
 - C) Linear equation
 - D) (a) and (b)

(EMC01-0030M)

- If $\frac{n}{3}$ is an integer, then $\omega^{n^3} + \omega^{3^n} =$
 - A) 1
 - B) ω
 - C) ω^2
 - D) 2



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	Ans	wers Key	
	1	Α	
	2	В	
	3	D	
	4	D	
	5	С	
	6	D	
	7	Α	
	8	Α	
	9	В	
	10	В	
	11	D	
	12	В	
	13	D	
	14	В	
P/	15	D	
Ch	0	0	

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