

 $\#LP\ 2$: If the LCM of 12 and 42 is 10 m + 4, then the value of m is:

a. 50

#LP 3 : If the point (2p - 3, p + 2) lies on the line 2x + 3y = -15 then the value of p is :

a. - <u>7</u> 15

#LP 4 : Sunita has X rupees more than vinay has. Together they have a total of Y rupees, the equations which represents the rupees vinay has:

2

b. <u>Y - X</u>

c. <u>Y - X</u> d. 2Y - X 2

#LP 5 : A fraction becomes <u>1</u> when 1 is subtracted from the numerator and it becomes

 $\frac{1}{4}$ when 8 is added to its denominator . Find the fraction .

#LP 6 : If the zeroes of the polynomial f (x) = $k^2 x^2 - 17x + k + 2$, (k>0) are reciprocal of each other than value of k is:

a. 2

b. - 1

c. - 2

d. 1

#LP 7: A polynomial in the following is: #LP 7: A polynomial in the following is: a. $7x^2-5\sqrt{x}+\sqrt{5}$ b. t^3-2t+1 c. $x^2-\frac{1}{x^2}$

#LP 8 : If one of the zeros of polynomial $a^2x^2 + x + b^2$ is -1 then: a. $a^2 + b^2 = 0$ b. $a^2 + b^2 - 1 = 0$ c. $a^2 - b^2 + 1 = 0$ d. $a^2 + b^2 = -1$

a. $a^2 + b^2 = 0$ c. $a^2 - b^2 + 1 = 0$

#LP 9 : If α and β are the zeroes of the polynomial $25x^2 - 16$, then $\alpha^2 + \beta^2$ is :

a. <u>32</u>

25

32

b. <u>25</u>

c. <u>25</u> 16

d. <u>16</u> 25 #LP 10 : The degree of the polynomial $(x + 1)(x^2 - x - x^4 + 1)$ is a. 4 b. 1 c. 5 d. 2

#LP 11 : If α and β are the zeroes of the quadratic polynomial f (t) = $t^2 - 4t + 3$, then the value of $\alpha^4 \beta^3 + \alpha^4 \beta^3$ is:

a. 104

b. 108

c. 122

d.5

#LP 12 : If α , β are the zeroes of the polynomial f (x) = x^2 – 3x + 2, then find $\frac{1}{\alpha}$ + $\frac{1}{\beta}$.

#LP 13 : If α and β are the zeroes of the polynomial $f(x) = 4x^2 - 5x + 1$, find a quadratic polynomial whose zeroes are $\underline{\alpha}^2$ and $\underline{\beta}^2$.

#LP 14 : If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - px + q$, prove that $\underline{\alpha}^2 + \underline{\beta}^2 = \underline{p}^4 - \underline{4p}^2 + 2$.