ONLINE COACHING-DAY 93- (12-07-2019)

LINEAR AND QUADRATIC EQUATIONS

NAME OF THE CANDIDATE: *

M4

PLACE: *

PATHANATHITTA

PLEASE ENTER YOUR CONTACT NO: *

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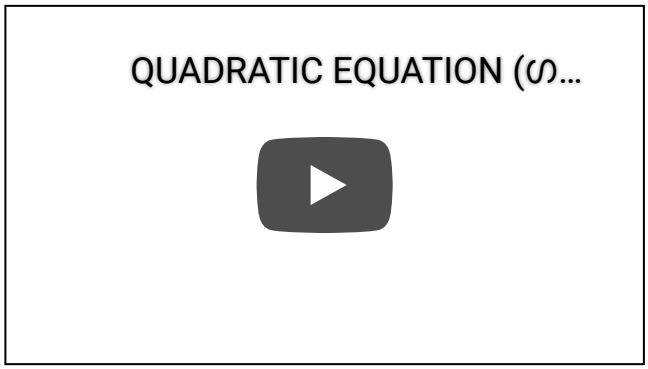
PLEASE WATCH THE ONLINE CLASSES CAREFULLY AND NOTE DOWN IT IN YOUR DIARY BEFORE SENDING THE ANSWERS.

Please watch the videos of online classes given below.

https://youtu.be/PNOjOvhGhkw

https://youtu.be/f-6E6-y3dP4



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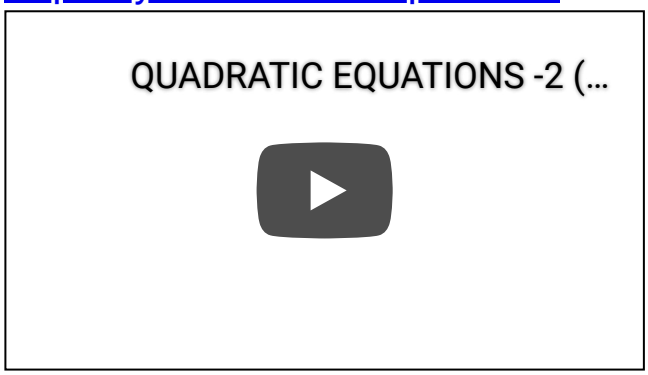

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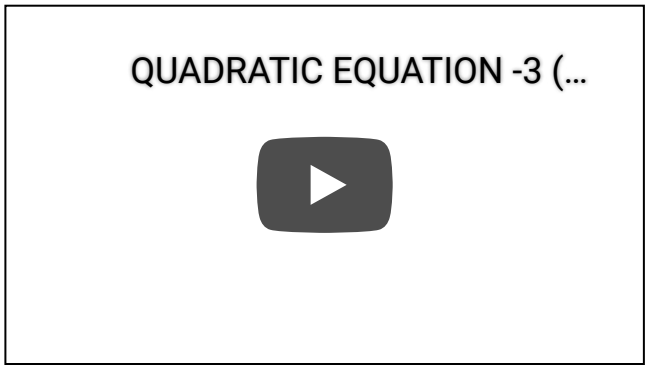

1. Solve -6x+5y =2,-5x+6y =9. Find the values of x and y? * 1 point

- ○ X=3,Y=3
- ○ X=4,Y=3
- ◉ X=3,Y=4
- ○ X=4,Y=4

2. Solve 3x+2y= -25, -2x-y=10. Find x and y? * 1 point

- ○ 5,20
- ○ -5,-20
- ○ -5,20
- ◉ 5,-20

3. For what value of k will the system of equations kx+2y=5,and 3x+y=1 have a unique solution? * 1 point

- ○ K not equal to 2
- ○ K not equal to 3
- ○ K not equal to 5
- ◉ K not equal to 6

4. Solve x+y =7, 3x-2y =11. Find the values of x and y? * 1 point

- ◉ 5,2
- ○ 4,3
- ○ 2,5
- ○ -2,-3

5. For what value of k, the system of equations 3x + 4y =6 and 6x + 8y = k represent, coincident lines? * 1 point

- ○ K equal to 4
- ○ K equal to 8
- ◉ K equal to 12
- ○ K equal to 6

6. For what value of k the equations 9x + 4y =9 and 7x +ky = 5 have no solution ? * 1 point

- ○ 22/7
- ◉ 28/9
- ○ 29/9
- ○ 29/7

7. If p = 3/5 , q= 7/9, r= 5/7 ,then which of the following inequality is true ? * 1 point

- ○ p<q<r
- ○ q<r<p
- ◉ p<r<q
- ○ r<q<p

8. If 7n+9>100 and n is an integer ,then smallest possible value of n is * 1 point

- ○ 13
- ○ 12
- ◉ 14
- ○ 15

9. If 6x - 5y = 13, 7x + 2y = 23, then 11x + 18y is equal to * 1 point

- ○ 33
- ○ 15
- ○ -15
- ◉ 51

10. Renus mother was three times as old as Renu 5 yr ago. After 5 yr, she will be twice as old as Renu. Renus present age(in yr) is * 1 point

- ○ 35
- ○ 10
- ○ 20
- ◉ 15

11. A fraction becomes 7/8, if 5 is added to both the numerator and the denominator. If 3 is added to both the numerator and the denominator, it becomes 6/7. Find the fraction. * 1 point

- ○ 8/11
- ◉ 9/11
- ○ 10/11
- ○ Couldn't be determined

12. Father is aged three times more his son Remu. After 8 yr, he would be 2 1/2 times of Ramus age. After further 8 yr, how many times would he be of Ramus age ? * 1 point

- ◉ 2 times
- ○ 2 1/2 times
- ○ 2 3/4 times
- ○ 3 times

13. For what values of k will the following pair of linear equations have infinitely many solutions? kx + 3y - (k-3) = 0 and 12x + ky - k = 0 . * 1 point

- ○ 2
- ○ 4
- ◉ 6
- ○ 8

14. Kamala got married 6 yr ago. Today , her age is 1 1/4 times of her age at the time of marriage, Her son's age is 1/10 times her age. Her son's age is * 1 point

- ○ 4 yr
- ○ 5 yr
- ○ 2 yr
- ◉ 3 yr

15. A father is 30 times older than his son. 18 yr later, he will be only thrice as old as his son.Fathers present age(in yr) is * 1 point

- ○ 25
- ○ 30
- ◉ 40
- ○ 45

16. 3 yr ago X's age was double of Y's seven years, hence the sum of their United ages will be 83 yr. The age of x today is * 1 point

- ○ 47
- ○ 35
- ◉ 45
- ○ 24

17. Eight consecutive numbers are given. If the average of the two numbers that appear in the middle is 6 , then the sum of the eight given numbers is * 1 point

- ○ 36
- ◉ 48
- ○ 54
- ○ 64

18. If the sum of five consecutive integers is S, then the largest of those integers in terms of S is * 1 point

- ○ S-10/5
- ○ S+4/5
- ○ S+5/4
- ◉ S+10/5

19. Solve 2x^2 +6 = 7 x. * 1 point

- ◉ x= 2,x=3/2
- ○ x=1,x=2/3
- ○ x=3,x= 1/6
- ○ x=2,x=2/3

20. Which of the following equations has real roots? * 1 point

- 3x^2+4x+5=0
- x^2+x+4 =0
- (x-1)(2x-5)=0
- 2x^2 - 3x +4 =0

21. If 2x^2 - 7xy + 3 y^2 = 0, then the value of x:y is * 1 point

- 3:2
- 2:3
- 3:1
- 5:6

22. Of the following quadratic equations, which is the one whose roots are 2 and -15 ? * 1 point

- x^2 - 2x +15=0
- x^2 + 15 x -2=0
- x^2 + 13x - 30 = 0
- x^2 - 30 =0

23. If a,b are the two roots of a quadratic equation such that a + b = 24 and a - b = 8 , then the quadratic equation having a and b as it's roots is * 1 point

- x^2 + 2x +8= 0
- x^2 - 4x +8 = 0
- (selected) x^2 - 24x + 128 = 0
- 2x^2 + 8x + 9 = 0

24. The product of the ages of Ankit and Nikita is 240. If twice the age of Nikita is more than Ankits age by 4 years, what is Nikita's age? * 1 point

- (selected) 12
- 20
- 18
- 14

25. Ratio of the two numbers is 3:4 and the sum of these two numbers is 420. The sum of their squares is * 1 point

- 9×10^3
- (selected) 9×10^4
- 9×10^5
- None of these

THANK YOU!