

13. The roots of a quadratic equation $m^2+m-12=0$ are and

- A) 4, 3 B) 4, -3 C) -4, -3 D) -4, 3

14. The values of x which satisfies the equation $6x^2-x-2=0$ are ----and ----

- A) $\frac{2}{3}, \frac{1}{2}$ B) $-\frac{2}{3}, \frac{1}{2}$ C) $\frac{2}{3}, -\frac{1}{2}$ D) $-\frac{2}{3}, -\frac{1}{2}$

15. Which one of the following quadratic equation has -2 and +5 as a roots ?

- A) $x^2-3x-10=0$ B) $x^2+3x-10=0$ C) $x^2-3x+10=0$ D) $x^2+3x+10=0$

16. If in a quadratic equation $ax^2+bx+c=0$, $c=0$ then the roots are and

- A) $0, -\frac{b}{a}$ B) $0, \frac{b}{a}$ C) $a, -\frac{b}{a}$ D) $b, -\frac{b}{a}$

17. For what condition, the roots of a quadratic equation $ax^2+bx+c=0$ are real and distinct.

- A) $b^2-4ac=0$ B) $b^2-4ac>0$ C) $b^2-4ac<0$ D) $b^2-4ac=-2$

18. The nature of roots of a quadratic equation $ax^2+bx+c=0$ when the $b^2-4ac<0$.

- A) Real and Equal B) Real and Unequal
C) Real and Distinct D) Non-Real and Imaginary

19. The quadratic equation whose discriminant is p^2-4qr is

- A) $px^2+qx+r=0$ C) $qx^2+px+r=0$
B) $px^2+rx+q=0$ D) $rx^2+qx+p=0$

20. The value of discriminant of a quadratic equation $2x^2=4x-3$ is.....

- A) -8 B) 8 C) 40 D) -40

21. The equation $9x^2+kx+4=0$ has two equal roots then the value of k is....

- A) ± 12 B) ± 13 C) ± 11 D) ± 10

22. If the discriminant of a quadratic equation is equal to zero then the roots of a quadratic equation are

- A) Real and Distinct B) Imaginary (No real roots)
C) Real and Equal D) Irrational and Distinct

23. The discriminant of a quadratic equation $3x^2+8x-2=0$ is

- A) 40 B) 68 C) 88 D) 30

24. The discriminant of a quadratic equation $x^2+bx+c=0$ is

- A) b^2-4ac B) b^2-4c C) $b-4ac$ D) b^2-4a

25. The roots of a quadratic equation $ax^2+bx+c=0$ are not distinct when

- A) $b^2-4ac>0$ B) $b^2-4ac<0$ C) $b^2-4ac=0$ D) None of these.

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