

Mathematics ECAT Pre Engineering Chapter 6 Quadratic Equations Online Test

Sr	Questions	Answers Choice
1	The roots of the equation $4x - 3.2x + 2 + 32 = 0$ would include	A. 1 and 3 B. 1 and 4 C. 1 and 2 D. 2 and 3
2	The value of x for which the polynomials $x^2 - 1$ and $x^2 - 2x + 1$ vanish simultaneously is	A. 2 B. 1 C1 D2
3	In quadratic equation $f(x) = ax^2$, if $a > 0$, then the graph of parabola	A. Opens up B. Opens down C. close up D. symmetric w.r.t.x.axis
4	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
5	If b^2 - 4ac is positive then the roots of the equation are	A. Real B. Imaginary C. Positive D. Negative
6	If ax^2 + bx + x = 0 is satisfied by every value of x, then	A. b = 0, c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
7	If b^2 - 4ac = 0 then the roots of the equation are	A. Real and distinct B. Real and equal C. Imaginary D. None of these
8	Root of the equation $3^{x-1} + 3^{1-x} = is$	A. 2 B. 1 C. 0 D1
9	Roots of the equation $x^2 + 2x + 3 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
10	Question Image	A. n if n is even B. 0 for any natural number n C. 1 if in odd D. None of these
11	The value of k (k > 0) for which the equation x^2 + kx + 64 = 0 and x^2 - 8x + k = 0 both will have real roots is	A. 8 B16 C64 D. 16
12	The condition for polynomial equation $ax^2 + bx + c = 0$ to be quadratic is	A. a > 0 B. a < 0 C. a≠ 0 D. a≠ 0,b ≠ 0
13	w ⁻¹ =	A. 0 B. 1 C. w D. w ²
14	w ⁴ =	A. 0 B. 1 C. w D. w ²
15	If $f(x) = ax^2$, and a>0, then the lowest point on the parabola is called.	A. Vertex of parabola B. Co-ordinates of parabola C. Roots of the equation D. Coefficient of the equation

6	In a quadratic equation with leading co-efficient 1, a student reads the co-obtain the roots as - 15 and -4. The correct roots are	A. 6, 10 B6, -10 C. 8, 8 D8, -8
7	A quadratic equation in \boldsymbol{x} is an equation that can be witten in the form	A. ax ² + b = 0 B. ax ³ +b ² +c=0 C. ax ² +bx+c=0 D. ax ³ +bx ³
8	w ¹⁵ =	A. 0 B. 1 C. w D. w ²
9	Question Image	A. 1 B1 C. 5 D. 2
0	If x - 2 is a factor of ax2- 12x + a = 2a, then a =	A5 B. 5 C. 0 D. 1