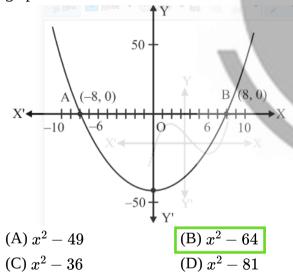
Important question, Do Again.

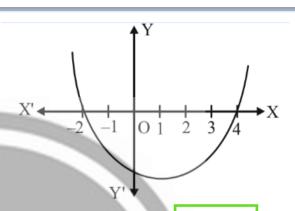
Udaan 2025 Maths Polynomials

DHA: 2

- **Q 1** If the graph of a polynomial intersects the x-axis at only one point, it can be a
 - (A) linear
- (B) quadratic
- (C) cubic
- (D) none of these
- **Q 2** The graph of a quadratic polynomia is
 - (A) straight line
 - (B) parabola
 - (C) hyperbola
 - (D) none of these
- ${f Q}$ 3 The expression of the polynomial represented by the graph is



Q 4 The two zeroes in the below shown graph are

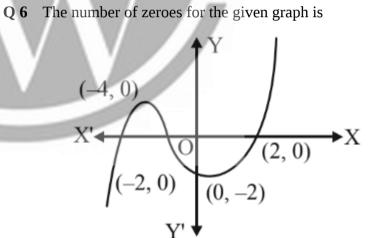


- (A) 2, 4 (C) -8, 4
- (B) -2, 4 (D) 2, -8
- Q 5 The zeroes of of the quadratic polynomial

$$4\sqrt{3}x^2+5x-2\sqrt{3}$$
are

- (B) $-\frac{2}{\sqrt{2}}, \frac{\sqrt{3}}{4}$
- (C) $\frac{2}{\sqrt{3}}, -\frac{\sqrt{3}}{4}$
- (B) $-\frac{2}{\sqrt{3}}, \frac{\sqrt{3}}{4}$ (D) $2 \sqrt{3}$

 $\sqrt[4]{\frac{\sqrt{3}}{\sqrt{3}}}, -\frac{1}{4}$



- (A) 3
- (B) 2
- (C) 4
- (D) 1

Answer Key

Q1 A

Q2 B

Q3 B

Q4 B

Q5 B

Q6 A



Hints & Solutions

Q 1 Text Solution:

A linear polynomial intersects the x-axis at only one point.

Video Solution:



Q 2 Text Solution:

The graph of a quadratic function is always a parabola, irrespective of the values of x and y.

Video Solution:



Q 3 Text Solution:

 $\left(x^2-64\right)$ is expression of the polynomial represented because A(-8,0) and B(8,0) i.e., on this quadratic equation $\left(x^2-64\right)$.

Video Solution:



Q 4 Text Solution:

The curve intersect x-axis at points x=-2 and x=4.

Video Solution:



Q 5 Text Solution:

Given polynomial is $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$ product of $4\sqrt{3}$ and $-2\sqrt{3}$ is -24 $\Rightarrow 4\sqrt{3}x^2 + 8x - 3x - 2\sqrt{3}$ $\Rightarrow 4x\left(\sqrt{3}x + 2\right) - \sqrt{3}\left(\sqrt{3}x + 2\right)$ $\Rightarrow \left(4x - \sqrt{3}\right)\left(\sqrt{3}x + 2\right)$ $4x - \sqrt{3} = 0 \Rightarrow x = \frac{\sqrt{3}}{4}$ $\sqrt{3}x + 2 = 0 \Rightarrow x = \frac{-2}{\sqrt{3}}$ The two zeroes are $\frac{\sqrt{3}}{4}$ and $\frac{-2}{\sqrt{3}}$

Video Solution:



Q 6 Text Solution:

Since the curve cuts the x-axis at 3 points. So, there are 3 zeroes of the given graph.

Video Solution:



