

Discriminant and Nature of Roots

Name			
Score			

RQ:27

Write the discriminant and nature of roots for each quadratic equation.

Q.No	Quadratic Equations	Discriminant	Nature of roots
1)	$z^2 - z - 4 = 0$		
2)	$5g^2 + 2g - 6 = 0$		
3)	$4x^2 - 4x + 1 = 0$		
4)	$t^2 + 3t - 2 = 0$		
5)	$y^2 - 2y = 0$		
6)	$3m^2 + m - 5 = 0$		
7)	$p^2 + 6p + 10 = 0$		
8)	$6n^2 + 3 = 0$		



Discriminant and Nature of Roots Answer key

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Write the discriminant and nature of roots for each quadratic equation.

Q.No	Quadratic Equations	Discriminant	Nature of roots
1)	$z^2 - z - 4 = 0$	17	The roots are real and unequal.
2)	$5g^2 + 2g - 6 = 0$	124	The roots are real and unequal.
3)	$4x^2 - 4x + 1 = 0$	0	The roots are real and equal.
4)	$t^2 + 3t - 2 = 0$	17	The roots are real and unequal.
5)	$y^2 - 2y = 0$	0	The roots are real and equal.
6)	$3m^2 + m - 5 = 0$	61	The roots are real and unequal.
7)	$p^2 + 6p + 10 = 0$	-4	The roots are unreal.
8)	$6n^2 + 3 = 0$	-72	The roots are unreal.