



Discriminant and Nature of Roots

Name _____

Score _____

RQ:26

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

Q.No	Quadratic Equations	Discriminant	Nature of roots
1)	$3m^2 + 1 = 0$		
2)	$y^2 - 5y = 0$		
3)	$v^2 + 2v + 1 = 0$		
4)	$4x^2 - 6x = 0$		
5)	$2k^2 + 3k + 5 = 0$		
6)	$p^2 - 6p + 9 = 0$		
7)	$7n^2 - 2n - 1 = 0$		
8)	$5h^2 + h - 4 = 0$		



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Answer key

RQ:26

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

Q.No	Quadratic Equations	Discriminant	Nature of roots
1)	$3m^2 + 1 = 0$	-12	The roots are unreal.
2)	$y^2 - 5y = 0$	-21	The roots are unreal.
3)	$v^2 + 2v + 1 = 0$	0	The roots are real and equal.
4)	$4x^2 - 6x = 0$	20	The roots are real and unequal.
5)	$2k^2 + 3k + 5 = 0$	-31	The roots are unreal.
6)	$p^2 - 6p + 9 = 0$	0	The roots are real and equal.
7)	$7n^2 - 2n - 1 = 0$	32	The roots are real and unequal.
8)	$5h^2 + h - 4 = 0$	81	The roots are real and unequal.