

Name : \_\_\_\_\_

## Nature of the Roots

ES2

For the quadratic equation  $ax^2 + bx + c = 0$ ,

If  $b^2 - 4ac > 0$ , the roots are real and unequal.

If  $b^2 - 4ac = 0$ , the roots are real and equal.

If  $b^2 - 4ac < 0$ , the roots are unreal(complex).

Find the nature of the roots using the discriminant.

1)  $y^2 + 5y - 8 = 0$

2)  $6d^2 + 7 = 0$

3)  $2q^2 + 1 = 0$

5)  $4r^2 - 4r + 1 =$

7)  $7t^2 + 9t = 0$

8)  $8w^2 - w + 3 = 0$

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