

Name : _____

Nature of the Roots

ES3

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) $p^2 - 6p + 9 = 0$

2) $8s^2 - 3s - 2 = 0$

3) $7m^2 + 8m + 3 = 0$

5) $d^2 + 7 = 0$

7) $4v^2 - 5v - 9 = 0$

8) $u^2 - 2u + 1 = 0$

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