

Name : _____

Nature of the Roots

MS2

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) $y(y - 3) = -5$

2) $\frac{9}{7}h^2 - 6h + 7 = 0$

3) $(g + 8)^2 = 0$

5) $4u^2 - \sqrt{3}u + 3 = 0$

7) $0.6p^2 - 7p - 5 = 0$

8) $x^2 + 2x + 1 = 0$

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