

Name : _____

Nature of the Roots

1) If the quadratic equation $nx^2 - 4\sqrt{6}x + 12 = 0$ has unreal roots, then find the values of n.

2) The equation $12z^2 + 16z + 5 = 0$ has two equal roots. Find the values for s.

3) If $r^2 - dr + 25 = 0$ has two equal roots, find the values for d.

4) For what values of t will the roots of the equation $tx^2 - 12x + 9 = 0$ be equal?

5) Find the values for k, if the equation $kx^2 - 8x + 1 = 0$ has real roots.

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