

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

## Nature of the Roots

1) If the quadratic equation  $16v^2 + 7pv + 49 = 0$  has equal roots, then find the values of p.

2) Find the possible values of p if the roots of the equation  $px^2 + 12x + 6 = 0$  are real and distinct.

3) If  $zs^2 + 10\sqrt{3}s + 3 = 0$  has equal roots, find the possible values for z.

4) Find the values of q for which the roots of the equation  $qx^2 + 12x + 6 = 0$  are complex roots.

5) For what values of s, the roots of  $3x^2 + sx + 9 = 0$  are real and unequal?

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