

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

## Nature of the Roots

1) If the quadratic equation  $5t^2 + 7t + \frac{1}{5}z = 0$  has equal roots, then find the value of z.

2) Find the possible values of z if the roots of the quadratic equation  $2x^2 + 7x + z = 0$  are real and equal.

3) If the quadratic equation  $2x^2 + 7x + z = 0$  has equal roots, find the possible values for v.

4) Identify the value of k for which the roots of the equation  $2x^2 + 7x + k = 0$  are real and equal.

5) If the equation  $4q^2 + \sqrt{8}uq + 6 = 0$  has unequal real roots, find the possible values for u.

# PREVIEW

Gain complete access to the largest  
collection of worksheets in all subjects!

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)