Name : _____

Nature of the Roots

Sheet 2

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 va… …oots.

3) If the quadratic equ… …l the possible values for v.

4) Identify the value o… …= 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.

Name : _____

Answer key

Nature of the Roots

Sheet 2

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

$z = \frac{49}{4}$

2) Find the possible va… …oots.

3) If the quadratic equ… …l the possible values for v.

4) Identify the value o… …= 0 are real and equal.

$m = -2$

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

$u < -2\sqrt{3}$; $u > 2\sqrt{3}$