Name : _____

Nature of the Roots

Sheet 1

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

2) Find the possible va… if … …s.

3) If $zs^2 + 10\sqrt{3}s + 3 =$ … sible values for z.

4) Find the values of q… …s complex roots.

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

Name : ___________________

Answer key

Nature of the Roots

Sheet 1

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

$p = -8$; $p = 8$

2) Find the possible va ... ts.

3) If $zs^2 + 10\sqrt{3}s + 3 =$ ... sible values for z.

4) Find the values of q ... s complex roots.

$q > \frac{2}{3}$

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

$s < -6\sqrt{3}$; $s > 6\sqrt{3}$