

Name _____ Date _____

Quiz: The Discriminant

Find the nature of roots of the following quadratic equations:

1 $x^2+x-20=0$

2 $t^2+8t-9=0$

Examine, whether the following equations have real roots:

3 $11x^2-8x-12=0$

4 $y^2+4y-48=0$

Examine, whether the following equations have complex roots:

5 $y^2+5y-500=0$

6 $k^2-4k+55=0$

Which equations have real, rational roots that are equal roots?

7 $x^2+8x+16=0$

8 $x^2-22x+4=0$

9 The roots of a quadratic equation can be real.

10 Can $\{2+5i, -2-5i\}$ be the roots of a quadratic equation?

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%