

Name \_\_\_\_\_ Date \_\_\_\_\_

Quiz: Solving Quadratic Equations with Complex Roots

Solve for the indicated variable and express the roots of the equation in simplest  $a + bi$  form:

1  $x^2 + 3x + 17 = 0$

2  $x^2/3 = 6x - 60$

3  $2y + 7 = -18/y$

4  $4 + 23/x^2 = 18/x$

5  $5x^2 + 34 = 0$

6  $a^2 + 2a + 41 = 0$

Find the solution set of the given equation over the set of complex numbers.

7  $h^2 + 3h + 25 = 0$

8  $k^2/2 = 6k - 28$

9  $8d + 90 = -2/d$

10  $2 + 8/r^2 = -2/r$

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%