**Solving Quadratic Equations with Complex Solutions** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: Factor the following polynomials then solve each equation using the zero product rule.

1. $x^{2}+9=0$ 2. $16x^{2}=-1$ 3. $8x^{2}+18=0$

4. $x^{2}=25$ 5. $4x^{2}=1$ 6. $3x^{2}=27$

7. $x^{2}+3x=-2$ 8. $x^{2}=-4x-4$ 9. $-4x^{2}+6x-16=-4x^{2}$

10. $4x^{2}+41=16$

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