Honors Algebra 2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6-4 Solving Polynomials Practice Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_

Solve each equation by factoring and/or using the quadratic formula. Show all work. Find **all solutions,** including complex solutions.

1) $x^{3}$ - 216 = 0 2) $x^{3}$+ 64 = 0

3) $x^{3}$ – 125 = 0 4) $2x^{4}+16x=0$

5) $8x^{3}$ – 1 = 0 6) $64x^{3}$+ 8 = 0

7) $x^{2}+121=0$ 8) $x^{2}-3x-2=0$

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