				_			
Name:				L	Date:		
Topic:					Class:		
Main Ideas/Questions	Notes						
SOLVING	1	MOVE ALL TERMS to one side and set the equation EQUAL TO 0.					
POLYNOMIAL	2	FACTOR the polyno	FACTOR the polynomial completely!				
EQUATIONS	3	SET EACH FACTOR	EACH FACTOR EQUAL TO 0 and SOLVE for each x-value.				
By Jactoning	For quadratic equations, solve by square roots, completing the square,						
	or the quadratic formula.  > SIMPLY all irrational and complex solutions!						
Directions: Solve each equation by factoring.							
1. $x^3 + x = 0$			<b>2.</b> $4x^3 - 7$				
<b>3.</b> $x^4 - 64 = 0$		<b>4.</b> $5x^5 - 80x = 0$					

<b>5.</b> $x^3 + 125 = 0$	<b>6.</b> $8x^5 + 5x^2 = 4x^2$
3. X 1123 = 3	
<b>7.</b> $x^3 - 216 = 0$	<b>8.</b> $16x^3 = 54$
$9. x^4 + x^2 - 42 = 0$	<b>10.</b> $x^4 + 3 = 13 - 9x^4$
	© Gina Wilson (All Things Algebra), 2015

<b>11.</b> $x^3 - 8x^2 + 16x = 0$	<b>12.</b> $2x^6 - 10x^4 - 48x^2 = 0$
	State State Avelone Control
<b>13.</b> $3x^4 - 2x^2 = 16$	<b>14.</b> $5x^4 + 13x^2 - 8 = x^2 + 1$
	Marie
	THE ALL PRINCIPLES OF THE PARTY
<b>15.</b> $x^3 + 2x^2 + 5x + 10 = 0$	<b>16.</b> $2x^3 - 3x^2 - 32x + 48 = 0$
	ACCURATE STATE OF THE STATE OF
	© Gina Wilson (All Things Algebra), 2015