Algebra 2	Name: Key
Quadratics Review / Perform the given operation and write the complex number in standard form.	
1. $(30 - i) - (18 + 6i) + 30i$	2. $(-1-i) + (9-3i)$
12 + 23i	8-4;
124 23	8-11
3. $(12 - 9i) - (17 + 2i)$	4. $(7+5i)(7-5i)$
-5-lli	ገዛ
5. $(3+2i)^2$	63 <i>i</i> (8 - 5 <i>i</i> )
5+ 12i	_15-24i
i	
7. $\frac{-5-3i}{-4+2i}$	$8.\frac{-7}{3-i}$
14 +271	-21-7:
20	] 0
Solve the quadratic equation by factoring.	
9. $2x^2 - 5x = 12$	10. $8x^2 + 17x + 9 = 0$
X= -3 x=4	$X = -1 \qquad X = -\frac{9}{8}$
$11. x^2 + 5x + 4 = 0$	12. $x^2 - 25 = 0$
X=-1 X=-4	X=5 X=-5
Solve the quadratic equation by taking the square root.	
13. $4(x+1)^2 = 100$	$14x^2 - 12 = -87$
x=-4 x=-6	X= ± 513
	x= ± J75

15. $3x^2 - 270 = 0$	$16.\frac{1}{3}(x+5)^2 = 7$
	$10.\frac{1}{3}(x+3) = 7$
X=±310	
or	x=-5±121
$X = \pm \sqrt{90}$	
X= = 1 10	
Solve the quadratic equation by completing the square.	
17. $2x^2 - 4x = 12$	18. $x^2 - 4x + 7 = 0$
X= 1=17	X=Z±iJ3
X-1-1-1	X= 2 = 1 + 5
2	
$19.\ 6x^2 + 84x + 300 = 0$	20. $x^2 = 6x - 10$
X=-7±i	X=3±i
Solve the quadratic equations using any mether	
$21. 3x^2 + 2x = 0$	22. $4x^2 - 1 = 0$
2	x= ½ x= -½
$X=0 \qquad X=-\frac{2}{3}$	
$23. x^2 - 6x - 7 = 0$	24. $2x^2 - 7x = 15$
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X=7 X=-1	X= - x= 5
	· 2



