Name

MONDAY		
Solve each quadratic equation by factoring. Make sure to write each in standard form if needed.		
$1.\ 2x^2 - 12x + 32 = x^2$	5. $x^2 - x = 42$	
2. $x^2 - 3x - 18 = 0$	6. $x^2 - 5x + 33 = 7x - 3$	
3. $x - 56 = -x^2$	$7.\ 9x^2 - 10x = x^2 + 4x$	
4. $12x^2 + 13x = 5x$	8. $3x^2 - 15x$	

TUESDAY		
Simplify the following. Simplify each radical, if	Solve by factoring. $x^2 = 14 - 5x$	
**You should have 2 answers!	x - 14 = 5x	
5 ± 7		
$-4 \pm \sqrt{9}$	Solve by factoring. $9x^2 - 3x - 2=0$	
$6 \pm \sqrt{18}$		
Factor the following trinomials. Then, write the answers in the form: $(a + b)^2$	Explain the pattern for the problems on the left.	
$x^2 - 10x + 25$		
$x^2 + 14x + 49$		

Name _____

WEDNESDAY	
Solve each equation for x.	Solve by taking square roots.
$x - 3 = \pm 5$	$4x^2 - 1 = 24$
$x + 2 = \pm \sqrt{3}$	Solve by taking square roots. Leave in fraction form. $9x^2 = 25$
$x - 6 = \pm 12$	
Solve by taking square roots. Leave in fraction form. $-4x^2 = -25$	Solve by taking square roots. $2x^2 = 14$
Solve by taking square roots. $x^2 + 13 = 4$	Solve by taking square roots. $x^2 - 61 = 20$

THURSDAY		
Solve by taking square roots.	Solve by taking square roots.	
$6(x+2)^2 = 24$	$(x+8)^2 = 6$	
Solve by taking square roots.	Solve by taking square roots.	
$3(x+6)^2 = 27$	$3(x-1)^2 = 243$	
Solve by taking square roots. $-(x+2)^2 = 9$	Solve by taking square roots. $2(x+4)^2 = 50$	
Solve by taking square roots. $2(x-7)^2 = 18$	Solve by taking square roots. $(x + 22)^2 = 625$	