

DO NOW

1. Simplify $(x^2 - 6)(x^2 - 6)$	2. Simplify $4(x + 6)(x - 5)$
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Aim: “How do we factoring using the easy tri method?” DAY 2

#	Trinomial with a leading coefficient of <u>one</u>	Factors of the last term
3.	$x^2 - 2x - 24$	
4.	$x^2 + 2x - 35$	
5.	$x^2 - x - 6$	

Steps to find all the factors of a number on the calculator:

1. $y = \#/x$ (last term)
2. Press 2nd graph to look at the table of factors

Steps for Easy Trinomial Factoring

- 1) “Double bubble”, with an x in each ().
- 2) The first sign drops down in the 1st ().
- 3) Multiply the given signs to determine the 2nd sign.
- 4) Find factors of the last # that add or subtract to the middle #.
- 5) The bigger # goes first!
- 6) Check by Tabular Method or Double Distributing

6.	$x^2 - 14x + 40$	
7.	$x^2 - 2x - 48$	
8.	$n^2 + 3n - 54$	
9.	$z^2 + 9z - 36$	
10.	$x^2 - 5x - 6$	
11.	$x^2 - 10x + 21$	

12.	$x^2 - 21x + 104$	
13.	$x^4 + 6x^2 + 5$	
14.	$x^4 + 10x^2 - 24$	
15.	$x^4 - 12x^2 + 36$	
16.	$x^4 + 6x^2 - 7$	

Mixed Practice: Remember to always look for _____ factoring 1st!!!!

17. $9x^4 - 12x^3 + 4x^2$	18. $x(x-8) + 7(x-8)$
19. $x^2 - 18x + 81$	20. $25 - x^4$
21. $x^2 - 7x + 10$	22. $3x^2 + 6x$
23. $25h^2 - 1$	24. $5x^2 + 20x + 10$
25. $y(2y+9) - 4(2y+9)$	26. $x^{100} - 100$
27. $5x^3 - 20x^2 - 60x$	28. $x^2 + 5x - 24$