

FOUR TERMS

Rule: Use grouping!

Steps		Example
①	GROUP the first two terms together and the last two terms.	$x^3 + x^2 - 4x - 4$
②	FACTOR the GCF for each group.	
③	FACTOR the common binomial.	
21.	$x^3 - x^2 + 9x - 9$	22. $k^3 + 5k^2 - k - 5$
23.	$4v^3 - 5v^2 - 16v + 20$	24. $2x^5 - 18x^4 + 7x - 63$

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Factoring By Grouping LL

Date _____ Period _____

Factor each completely.

1) $21x^3 + 56x^2 + 18x + 48$

2) $5x^3 + 10x^2 + 8x + 16$

3) $21n^3 - 28n^2 + 24n - 32$

4) $160x^3 - 64x^2 + 140x - 56$

5) $160b^3 - 96b^2 + 100b - 60$

6) $18a^3 + 126a^2 + 24a + 168$

7) $18x^3 - 12x^2 + 27x - 18$

8) $14ab - 21a + 2b - 3$

9) $8ab + 8a + 7b + 7$

10) $14xy + 7x + 16y + 8$