

Name:

Date:

Period:

Use the appropriate factoring method to factor each expression completely IN YOUR NOTEBOOKS.

1. $a^2 - 10a - 24$	2. $2x^2 - 7x - 15$	3. $2x^2 - 7xy + 6y^2$
4. $6mn^2 - 12m^3n^3$	5. $5n^2 - 17n + 6$	6. $x^8 - x^5$
7. $c^2 - 144$	8. $.09x^2 - \frac{1}{25}$	9. $ax^2 - 9a$
10. $x^2 + 19x + 48$	11. $30y^3x^5 - 5x^2y^3$	12. $3m^2 + 9m - 30$
13. $25m^2n^4 - 81$	14. $y^2 - 4y - 32$	15. $x^4 - 1$
16. $42a^3b^2 + 7a^2b^3 - 21a^4b^3$	17. $2x^2 + 10x$	18. $2x^3 - 18x$
19. $x^2 + 34x + 33$	20. $x^2 + xy - 6y^2$	21. $4x^2 + 16x - 48$
22. $9x^2 + 3x$	23. $x^2 + 28x + 75$	24. $c^2 + cd - 2d^2$
25. $y^2 - 100$	26. $a^2 - 5ab - 6b^2$	27. $9x^2 + 81y^2$
28. $m^2 - 14m + 49$	29. $3x^2 - 6x$	30. $36y^2 - 49z^2$
31. $144a^8b^6 - 25m^4$	32. $3x^2 - x - 10$	33. $a^5 - 9a^3$
34. $16ab^2 - 8ab + 4a^2$	35. $40x^2 - 50xy$	36. $3x^2 - 12x - 36$
37. $.04x^2 - 1$	38. $6y^2 + 23y + 20$	39. $8x^2y - 128y$
40. $x^2 - 11x + 30$	41. $10x^2 - 11x - 6$	42. $x^4 - 13x^2 - 48$
43. Factor: $36x^2 - 100y^2$	44. The side of a square is represented by $2x - 3$ . Find the area of the square in terms of $x$ .	
45. One factor of $14x^2 - x - 3$ is $(7x + 3)$ . Find the other factor.	46. Express $x^2 - 2x - 48$ as the product of two binomials.	
47. If one factor of $3x^2 + 4x - 15$ is $(x + 3)$ , find the other factor.	48. Express the product $(2x - 7)(2x + 7)$ as a binomial.	
49. Express the product of $(2x - 5)(3x - 6)$ as a trinomial.	50. Factor: $6x^2 + x - 12$	