Do **Odd** only on this side !!

Name _____

Date _____ Period _____

Factor.

1. $x^2 - 81$ $(x - 9)(x + 9)$

2. $x^2 + 6x + 9$

3. $9x^2 - 25$

4. $4x^2 + 28x + 49$

5. $4x^2 - 81$

6. $4x^2 - 12x + 9$

7. $16 - 25x^2$

8. $x^2 - 14x + 49$

9. $25 - x^2$

10. $16x^2 - 8x + 1$

11. $100x^2 - 1$

12. $25x^2 + 70x + 49$

13. $4a^2 - b^2$

14. $16x^2 + 72x + 81$

15. $9r^2 - 4t^2$

16. $9a^2 + 24ab + 16b^2$

17. $x^2y^2 - 9z^2$

18. $25x^2 - 20xy + 4y^2$

19. $400a^2 - 9b^2$

20. $49m^2 - 28mn + 4n^2$

21. $9x^2 - 49y^2$

22. $64a^4 - 80a^2b + 25b^2$

23. $400x^2 - 49y^2$

24. $81m^2n^2 + 18mn + 1$

25. $4r^2 - 49t^2$

26. $169s^4 - 52s^2 + 4$

27. $256x^4 - 9y^2$

28. $364r^2 + 36rs^2 + s^4$

29. $289x^6y^2 - z^2$

30. $900x^4 - 60x^2 + 1$

31. $(a - b)^2 - c^2$

32. $(c - d)^2 + 2(c - d) + 1$

33. $r^2 - (p + q)^2$

34. $(m + n)^2 - 2(m + n) + 1$

69

Developing Skills in Algebra   Book B

Do All on this side !!

Algebra 1

Name_____

Factoring Special Cases

Date_____ Period_____

Factor each completely.

1) $2r^2 + 16r + 32$

2) $4k^2 + 12k + 9$

3) $25v^2 + 30v + 9$

4) $25 + 20a + 4a^2$

5) $45 + 60x + 20x^2$

6) $k^2 + 4k + 4$

7) $b^2 + 8b + 16$

8) $18n^2 - 12n + 2$

9) $18b^3 + 60b^2 + 50b$

10) $16 - 24r + 9r^2$

11) $m^2 - 4mn + 4n^2$

12) $64a^2 + 96ab + 36b^2$

13) $48a^2 - 27b^2$

14) $36u^2 - 4v^2$

15) $a^2 - 25b^2$

16) $4x^2 - 16xy + 16y^2$