

NAME _____

DATE _____

ALGEBRA II WORKSHEET: FACTORING POLYNOMIALS

Factor each polynomial completely. Complete each example on looseleaf or on the reverse side of this sheet.

1. $10p^2 - 37p + 7$

2. $4x^2 - 9$

3. $3t^2 - 3$

4. $64j^2 - 49k^2$

5. $27a^3 - 8b^3$

6. $16n^4 - 1$

7. $125 + a^9$

8. $9a^3 - 72$

9. $7a^3 + 875$

10. $49z^2 - 42z + 9$

11. $(a+2)^4 - 3(a+2)^3$

12. $(x-3)^3 - (x-3)^2$

13. $7y^2 - 19y - 6$

14. $(2x+5)^2 - 36$

15. $6v^2 - v - 12$

16. $36d^2 - 12d + 1$

17. $36d^2 - 13d + 1$

18. $z^2 + 10z + 16$

19. $r^3 + 4r^2 - 32r$

20. $m^2 + 10m - 96$

21. $x^3 + x^2y - xy^2 - y^3$

22. $y^5 + y^3 + 64y^2 + 64$

23. $5x^2y - 7x^2 - 7 + 5y$

24. $a^2(2a-3) - 4a + 6$