

Math 1010 – Intermediate Algebra
Review of Factoring and Solving Equations by Factoring

Name _____ Class Time _____ Score _____

*Instructions: Identify each exercise as an **equation** or an **expression**. Then factor the expressions or solve the equation by factoring, as appropriate.*

1. $12p^2 - 6p$

2. $x^2 + 9x + 18 = 0$

3. $3z^2 - z - 4$

4. $16x^2 - 25$

5. $x^2 - 8x + 16 = 0$

6. $48k^4 - 243$

7. $x^2 + 5y + 5x + xy$

8. $k^2 - 6k + 16$

9. $x^2 + 14x + 49$

10. $(5x + 2)(x + 1) = 0$

11. $12q^2b + 8qb^2 - 20q^3b^2$

12. $2m + 6 - am - 3a$

13. $12r^2 - 5r - 3$

14. $9t^2 = 49$

15. $16a^2 + 40ab + 25b^2$

16. $125x^3 - 1$

17. $6x^2 = 5x + 50$

18. $3x^2 + 9x + 30 = 2x^2 - 2x$

19. $-3x^2 + 27 = 0$

20. $9y^2 + 100$

21. $54m^3 + 2000$

22. $21x^2 + 35x = 0$

23. $15x^2 - 7x = 4$

24. $6k^2 + 11k - 10$

25. $48y^2z^3 - 28y^3z^4$

26. $25x^3 = 64x$