

Factoring Review

Factor the following questions. Use the following steps

1. Check for a common factor
2. Check for an “easy” trinomial – no coefficient in front of the squared variable
3. Check for a “hard” trinomial – use the “OI” in FOIL method
4. If it is a binomial, use the difference of squares method

1. $3a^2 + 6a$	16. $16 - 9x^2$	31. $x^8 - 1$
2. $2x - 8xy$	17. $10x^2 - 28x + 16$	32. $2y^2 - 2y - 24$
3. $36a^3 - 4a^2$	18. $m^2 - 16$	33. $2x^2 - 8$
4. $25a^4 - 9y^2$	19. $5y^2 - 14y + 8$	34. $4y^2 + 8y - 60$
5. $x^2 + 7x + 12$	20. $m^2 - 5m - 36$	35. $m^4 - 16$
6. $3a^2 - 3b^2$	21. $6a^2 + 5a + 1$	36. $2x^2 - 16x + 32$
7. $y^2 - 11y + 28$	22. $x^4 - y^4$	37. $x^3 - xy^2$
8. $16x^2 - 8x + 1$	23. $p^2 - 2pq - 63q^2$	38. $x^2 - 5x + 4$
9. $a^2 - a - 56^2$	24. $m^2 - 3m - 4$	39. $x^2 - 2x - 8$
10. $4x^2 - 11x + 6$	25. $x^2 - xy$	40. $y^2 + 11y + 30$
11. $9k^2 - 1$	26. $x^2 + 3xy - x$	41. $m^2 - 6m - 16$
12. $32y^2 + 18y + 1$	27. $a^2 - 144$	42. $8x^2 + 14x - 15$
13. $2y^2 - 8y^3$	28. $3a^2 - 36a + 36$	43. $3x^2 + x - 30$
14. $x^2 - 6x + 8$	29. $x^2 + 18x + 32$	44. $4m^2 - 9$
15. $56x^2 + 9x - 2$	30. $m^2 - 9m - 112$	45. $6x^2 - 7x + 1$

Factoring Review

Factor the following questions. Use the following steps

1. Check for a common factor
2. Check for an “easy” trinomial – no coefficient in front of the squared variable
3. Check for a “hard” trinomial – use the “OI” in FOIL method
4. If it is a binomial, use the difference of squares method

1. $3a^2 + 6a$	16. $16 - 9x^2$	31. $x^8 - 1$
2. $2x - 8xy$	17. $10x^2 - 28x + 16$	32. $2y^2 - 2y - 24$
3. $36a^3 - 4a^2$	18. $m^2 - 16$	33. $2x^2 - 8$
4. $25a^4 - 9y^2$	19. $5y^2 - 14y + 8$	34. $4y^2 + 8y - 60$
5. $x^2 + 7x + 12$	20. $m^2 - 5m - 36$	35. $m^4 - 16$
6. $3a^2 - 3b^2$	21. $6a^2 + 5a + 1$	36. $2x^2 - 16x + 32$
7. $y^2 - 11y + 28$	22. $x^4 - y^4$	37. $x^3 - xy^2$
8. $16x^2 - 8x + 1$	23. $p^2 - 2pq - 63q^2$	38. $x^2 - 5x + 4$
9. $a^2 - a - 56^2$	24. $m^2 - 3m - 4$	39. $x^2 - 2x - 8$
10. $4x^2 - 11x + 6$	25. $x^2 - xy$	40. $y^2 + 11y + 30$
11. $9k^2 - 1$	26. $x^2 + 3xy - x$	41. $m^2 - 6m - 16$
12. $32y^2 + 18y + 1$	27. $a^2 - 144$	42. $8x^2 + 14x - 15$
13. $2y^2 - 8y^3$	28. $3a^2 - 36a + 36$	43. $3x^2 + x - 30$
14. $x^2 - 6x + 8$	29. $x^2 + 18x + 32$	44. $4m^2 - 9$
15. $56x^2 + 9x - 2$	30. $m^2 - 9m - 112$	45. $6x^2 - 7x + 1$