

ALGEBRA 1

Factoring Review Worksheet

1. $x^2 + 3x - 4$

2. $x^2 + 15x + 50$

3. $2x^2 - x - 21$

4. $x^2 - 10x + 24$

5. $3x^2 + 8x + 5$

6. $2x^2 - x - 6$

7. $2x^2 - 18$

8. $6x^2 + 5x - 4$

9. $2x^2 - 5x + 2$

10. $8x^3 - 6x^2 - 4x + 3$

11. $25x^2 - 1$

12. $x^2 - 12x + 36$

13. $3x^2 + 2x - 1$

14. $5x^2 - 3x - 2$

15. $x^3 + 2x^2 + x$

16. $2x^2 - 28x + 96$

17. $4x^2 - 13x + 3$

18. $6x^3 + 3x^2 + 8x + 4$

19. $8x^2 - 10x + 3$

20. $49x^2 + 16$

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|-----------------------|--------------------------|------------------------|-----------------------|
| 1. $(x + 4)(x - 1)$ | 2. $(x + 5)(x + 10)$ | 3. $(2x - 7)(x + 3)$ | 4. $(x - 6)(x - 4)$ |
| 5. $(3x + 5)(x + 1)$ | 6. $(2x + 3)(x - 2)$ | 7. $2(x - 3)(x + 3)$ | 8. $(3x + 4)(2x - 1)$ |
| 9. $(2x + 3)(x - 4)$ | 10. $(2x^2 - 1)(4x - 3)$ | 11. $(5x + 1)(5x - 1)$ | 12. $(x - 6)^2$ |
| 13. $(x + 1)(3x - 1)$ | 14. $(5x + 2)(x - 1)$ | 15. $x(x + 1)^2$ | 16. $2(x - 6)(x - 8)$ |
| 17. $(4x - 1)(x - 3)$ | 18. $(4x - 3)(2x - 1)$ | 19. $(4x - 3)(2x - 1)$ | 20. Not factorable |