

4
5
10-14
18
19

Key

Algebra II
Factoring Worksheet #1
Factor all of the
polynomials completely.

- 1. $5x^2 + 8x + 3$
 $(5x + 3)(x + 1)$
- 2. $5x^2 - 2x - 3$
 $(5x + 3)(x - 1)$
- 3. $5x^2 - 8x + 3$
 $(5x - 3)(x - 1)$
- 4. $5x^2 + 2x - 3$
 $(5x - 3)(x + 1)$
- 5. $x^2 + 6x - 7$
 $(x + 7)(x - 1)$
- 6. $x^2 - 6x - 7$
 $(x - 7)(x + 1)$
- 7. $x^2 - 8x + 7$
 $(x - 7)(x - 1)$
- 8. $7x^2 + 10x + 3$
 $(7x + 3)(x + 1)$
- 9. $7x^2 - 10x + 3$
 $(7x - 3)(x - 1)$
- 10. $7x^2 + 4x - 3$
 $(7x - 3)(x + 1)$

- 11. $7x^2 + 22x + 3$
 $(7x + 1)(x + 3)$
- 12. $7x^2 + 20x - 3$
 $(7x - 1)(x + 3)$
- 13. $7x^2 - 22x + 3$
 $(7x - 1)(x - 3)$
- 14. $9x^2 - 4$
 $(3x - 2)(3x + 2)$
- 15. $9x^2 - 12x + 4$
 $(3x - 2)(3x - 2)$
- 16. $9x^2 + 12x + 4$
 $(3x + 2)(3x + 2)$
- 17. $x^2 + 8x - 9$
 $(x + 9)(x - 1)$
- 18. $x^2 - 10x + 9$
 $(x - 9)(x - 1)$
- 19. $x^2 - 8x - 9$
 $(x - 9)(x + 1)$
- 20. $x^2 - 9$
 $(x + 3)(x - 3)$
- 21. $x^2 - 6x + 9$
 $(x - 3)(x - 3)$

- 22. $x^2 + 6x + 9$
 $(x + 3)(x + 3)$
- 23. $2x^2 + 7x + 5$
 $(2x + 5)(x + 1)$
- 24. $2x^2 + 3x - 5$
 $(2x + 5)(x - 1)$
- 25. $2x^2 - 7x + 5$
 $(2x - 5)(x - 1)$
- 26. $2x^2 - 9x - 5$
 $(2x + 1)(x - 5)$
- 27. $2x^2 - 11x + 5$
 $(2x - 1)(x - 5)$
- 28. $2x^2 + 9x - 5$
 $(2x - 1)(x + 5)$
- 29. $x^2 - 16$
 $(x - 4)(x + 4)$
- 30. $x^2 + 8x + 16$
 $(x + 4)(x + 4)$
- 31. $x^2 - 8x + 16$
 $(x - 4)(x - 4)$
- 32. $2x^2 - 16x + 32$
 $2(x^2 - 8x + 16)$