

3-1 Factoring Polynomials

Name: _____

Time> Start: _____ Finish: _____

Total Time = _____

Factor each trinomial completely.

_____ 1. $x^2 + 8x - 20$

_____ 2. $x^2 - 19x - 20$

_____ 3. $x^2 + x - 20$

_____ 4. $x^2 - 9x + 20$

_____ 5. $x^2 - 12x + 20$

_____ 6. $x^2 + 3x - 10$

_____ 7. $x^2 - 6x - 16$

_____ 8. $x^2 + 8x - 9$

_____ 9. $x^2 - 9$

_____ 10. $x^2 - 8x + 12$

_____ 11. $x^2 + 5x - 50$

_____ 12. $x^2 - 23x - 50$

_____ 13. $x^2 + 49x - 50$

_____ 14. $x^2 - 6x + 8$

_____ 15. $x^2 - 17x + 16$

_____ 16. $x^2 - 2x - 8$

_____ 17. $x^2 - 5x - 14$

PART 2

Factor each polynomial completely. Every one of them needs the GCF taken out first before breaking them into the product of two binomials.

_____ 1. $2x^2 + 16x - 40$

_____ 2. $3x^2 - 24x + 36$

_____ 3. $5x^2 - 10x - 40$

_____ 4. $10x^2 + 30x + 20$

_____ 5. $4x^2 + 20x + 16$

_____ 6. $2x^2 + 6x - 20$

_____ 7. $2x^2 + 2x - 40$

_____ 8. $2x^2 - 18$

_____ 9. $3x^2 + 9x - 30$

_____ 10. $2x^2 + 16x - 18$

_____ 11. $x^3 - 6x^2 + 8x$

_____ 12. $5x^3 + 15x^2 + 10x$

_____ 13. $3x^2 - 12$

_____ 14. $2x^3 - 10x^2 - 28x$

_____ 15. $8x^2 + 8x - 16$