

GSE Algebra I
Factoring Quadratic Trinomials

Name _____

Directions: USE A SEPARATE SHEET OF PAPER. Please factor the following expressions. If any of the following expressions cannot be factored, please indicate so by stating "prime".

1. $x^2 + 5x + 4$

2. $x^2 + 12x + 32$

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

4. $a^2 - 5a - 24$

5. $5a - 24 + a^2$

6. $r^2 + 2r - 48$

7. $2x^2 + 12x - 144$

8. $4d^2 + 8d + 320$

9. $x^2 - 6x + 9$

10. $15m + m^2 + 54$

11. $32 + x^2 - 33x$

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

13. $5b^2 + 5b - 360$

14. $-25d + 156 + d^2$

15. $b^2 - 10b + 24$

16. $-f^2 - 11f - 26$

17. $6x^2 - 13x - 5$

18. $3x^2 + 10x - 25$

19. $10x^2 + 17x + 3$

20. $-12x^2 + 14x + 6$

21. $24x^2 - 56x - 10$

22. $3x^2 - 32x + 45$

23. $-14x^2 + 9x - 1$

24. $12x^2 - 8x - 15$

25. $x^2 - 16$

26. $11x^2 + 35x + 6$

27. $4x^2 - 25$

28. $3x^2 - 75$