Foundations of Math 2
Unit 6: Factoring Quadratics
TEST Review Sheet

Name_____
Date_____ Pd_____

➢ **GCF Factoring (List all factors)**

1. $9xy^2 + 18y$ Answer:_____	2. $21x^3y^4 - 49x^3y^5$ Answer:_____
3. $10x^2y^4 + 12x^3y^2 + 2xy^3$ Answer:_____	4. $6x^5y^3 - 18x^4y + 36x^3y^2$ Answer:_____

➢ **Difference of Squares Factoring (Square Roots)**

5. $x^2 - 16$ Answer:_____	6. $x^2 - 100$ Answer:_____
7. $25x^2y^4 - 49$ Answer:_____	8. $9x^2y^2 - z^4$ Answer:_____

➢ **Trinomial Factoring (Shortcut)**

9. $x^2 + 7x + 12$ Answer:_____	10. $x^2 + x - 30$ Answer:_____
11. $x^2 - 10x + 24$ Answer:_____	12. $x^2 - 21x - 22$ Answer:_____

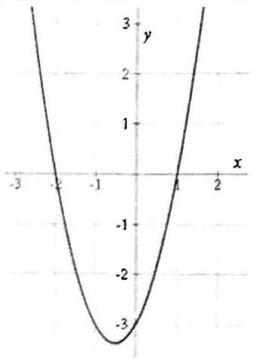
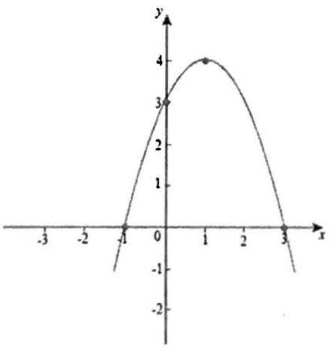
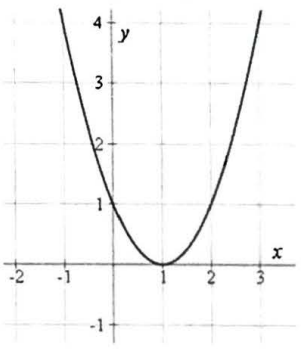
➢ **Trinomial Factoring – Illegal Move (DRS)**

13. $2x^2 - 3x - 5$ Answer:_____	14. $5x^2 + 14x - 3$ Answer:_____
15. $6x^2 - 17x + 7$ Answer:_____	16. $3x^2 + 17x + 10$ Answer:_____

➢ **Solve each equation**

17. $(x - 5)(x + 6) = 0$ $x =$ _____	18. $(x + 4)(2x - 3) = 0$ $x =$ _____
19. $x^2 - 6x + 8 = 0$ $x =$ _____	20. $x^2 - 49 = 0$ $x =$ _____

➢ **Solve each equation using the graph of a quadratic equation**

21.  $x =$ _____	22.  $x =$ _____	23.  $x =$ _____

24. $x^2 + 5x - 6 = 0$ _____ Real Roots	25. $x^2 + 5x + 10 = 0$ _____ Real Roots	26. $x^2 - 6x + 9 = 0$ _____ Real Roots