Secondary Math II   Name: _____
4-2 Factoring Quadratics   Period:_____

Objective: I can factor quadratic expressions.

Factor each expression completely:

1. $6xy^2 - 18y^3$ 2. $a^2b + 7ab$

3. $3xy - x$ 4. $x(x-2) - 5(x-2)$

5. $x^2 + 4x + 3$ 6. $2x^2 + 4x - 7$

7. $x^2 - 7x + 10$ 8. $m^2 + 6m - 7$

9. $6x^2 + 19x + 15$ 10. $3b^2 - 3b - 18$

11. $x^2 + 2x - 35$

12. $2x^2 - 3x - 2$

13. $a^2 + 13a + 42$

14. $4x^2 - 2x - 12$

15. $3u^2 + 36u + 60$

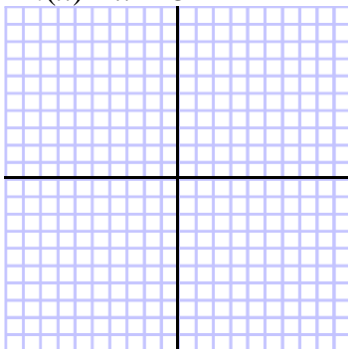16. $x^2 - 11x + 28$

17. $2x^2 + 13x + 15$

18. $w^2 + 13w + 40$
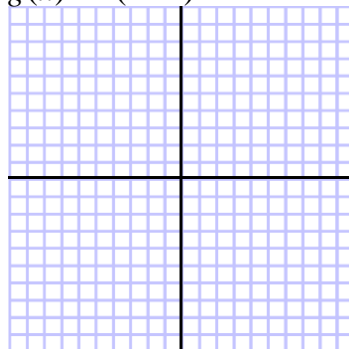
19. $3t^2 - 4t - 2$

20. $3x^2 - 8x - 3$

Review: Graph the function.

21. $h(x) = x^2 - 5$

22. $g(x) = -(x+4)^2$

Answer Key:

1. $6y^2(x - 3y)$
3. $x(3y - 1)$
5. $(x + 1)(x + 3)$
7. $(x - 2)(x - 5)$
9. $(2x + 3)(3x + 5)$
11. $(x - 5)(x + 7)$
13. $(a + 6)(a + 7)$
15. $3(u + 2)(u + 10)$
17. $(2x + 3)(x + 5)$
19. *Already factored*