**4.3** Re-Teach Worksheet Name _____

Intermediate Algebra

**Learning Target:** ***I can translate quadratic equations from standard form into factored form.***

**Write the following equations in factored form.**

1. $x^2 + 17x + 16$

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

3. $x^2 - 9$

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

5. $2x^2 + 3x + 1$

6. $4x^2 – 25$

7. $6x^2 + 13x + 6$

8. $2x^2 + 13x - 7$

9. $12x^2 - x - 6$

10. $3x^2 + 21x - 24$

11. $18x^2 - 200$

12. $3x^4 + 24x^3 + 45x^2$

13. $10x^2 + 15x - 10$

**4.3** Re-Teach Worksheet Name _____

Intermediate Algebra

14. What is the greatest common factor of $9x^4 - 6x^3 + 15x^2$

A. 3 B. $6x$ C. $3x^2$ D. $6x^2$

15. What is a binomial factor of the expression $3x^2 + x - 10$

A. $x - 2$ B. $3x + 5$ C. $x - 5$ D. $x + 2$

16. John took the equation $y = 4x^2 - 36$ and converted it from standard form to factored form. His new equation in factored form was $y = 4(x - 3)(x - 3)$ . John's solution is incorrect. Explain the mistakes John made when finding his solution.

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