4.3 Re-Teach Worksheet Intermediate Algebra

Name ____

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

Write the following equations in factored form.

7.
$$6x^2 + 12x$$

8.
$$2x^2 + 13x - 7$$
 $(2x - 1)(x + 7)$

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

$$3(x^{2}+21x-24)$$

$$3(x^{2}+7x-8)$$

$$3(x-1)(x+8)$$

11.
$$18x^{2}-200$$

$$2(9x^{2}-100)$$

$$2(3x+10)(3x+10)$$

6.
$$4x^2-25$$

 $4x^2+0x-25$
 $(2x-5)(2x+5)$

12.
$$10x^{2} + 15x - 10$$

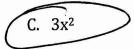
 $5(2x^{2} + 3x - 2)$
 $5(2x + 1)(x + 2)$

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

A. 3

B. 6x



D. 6x²

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

(3X-5)(X+2)

A. x-2

B. 3x + 5

C. x-5

15. 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.

be 4 (x-3/x+3) term or (ause opposites