

4.2 Re-Teach Worksheet

Name _____

Intermediate Algebra

Learning Target: *I can translate quadratic equations from factored and vertex form INTO standard form.*

Level 1

Multiply

1. $3x(4x-7)$ 2. $-9x^2(3x^3+7x-2)$ 3. $4y(-y^3+2y-1)$ 4. $(2x+1)(x-3)$

Write each equation in standard form.

5. $y = (x+2)(x-3)$ 6. $y = -2(x-5)(x-4)$ 7. $y = (4b-3)(b-7)$ 8. $y = (3x-1)(4x+9)$

9. $y = (2x-5)^2$

10. $y = (x+10)^2$

11. $y = (6x+1)^2$

12. $y = (4x-7)^2$

13. $y = 3(x-4)^2 + 7$

14. $y = -2(x+2)^2 - 11$

15. $y = -(x-10)^2 - 1$

16. $y = (x+1)^2 + 15$

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Level 2

Find the x-intercepts of each function.

17. $y = (x - 5)(x + 9)$

18. $y = (2x + 11)(x - 8)$

19. $y = (5x + 8)(6x - 1)$

Given the following x-intercepts, write a quadratic function in standard form.

20. $(3, 0)$ $(-7, 0)$

21. $(-6, 0)$ $(-4, 0)$

22. $(9, 0)$ $(\frac{1}{2}, 0)$

Error Analysis

Describe all the errors in each problem below.

23.

$$y = (x + 5)^2$$

$$y = x^2 + 5^2$$

$$y = x^2 + 25$$

24.

$$y = (2x + 4)(x + 6)$$

$$y = x^2 + 6x + 4x + 24$$

$$y = x^2 + 10x + 24$$

25.

$$y = -3x^2(-x^4 + 2x^3 - 6x)$$

$$y = 3x^8 - 5x^5 - 18x^2$$