4.2 Worksheet

Name _____

Intermediate Algebra

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

Level 1
Multiply

1. $3x(x-4)$

2. $-2x^2(4x^3+3x-2)$

3. $(2x+1)(x-3)$

Write each equation in standard form.

5. $y = (x + 4)(x +1)$

6. $y = -2(x - 2)(x +6)$

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

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

9. $y =4(x-2)^2 + 4$

10. $y =-(x-6)^2 - 12$

Level 2
Find the x-intercepts of each function.

11. $y = (2x + 12)(x - 3)$

12. $y = (4x + 16)(3x - 1)$

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

13. (4, 0) (-6, 0)

14. (-2, 0) (-10, 0)