Name: _____

A6 Review

Be sure to show all your thinking!

1.   Mulitply $2(x-3)(4x+1)$ **2.**   Multiply $(x-4)(x+6)$

3.   Factor $x^2 + 8x + 12$ **4.**   Factor $x^2 - 5x - 36$

5.   Factor $3x^2 - 27x + 24$ **6.** Solve $x^2 - 2 = 62$

7. Solve $(x-5)^2 + 4 = 85$ **8.** Solve $x^2 - 2x = 63$

9. Solve $x^2 - 3x - 10 = 0$ **10.** Solve $-2x^2 - 3x + 9 = 0$

11. Convert to standard form. $y = (x - 3)(x + 2)$

12. Convert to vertex form. $y = x^2 + 6x + 8$

13.   Convert to factored form. $y = (x - 2)^2 - 16$

14.   Convert to standard form. $y = -2(x - 2)^2 - 3$

15.   Convert to vertex form. $y = (x - 4)(x + 2)$