

**Algebra II Honors Solving Quadratic Equations by Factoring**

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Solve each equation by factoring.

1)  $(k + 1)(k - 5) = 0$

2)  $(a + 1)(a + 2) = 0$

3)  $(4k + 5)(k + 1) = 0$

4)  $(2m + 3)(4m + 3) = 0$

5)  $x^2 - 11x + 19 = -5$

6)  $n^2 + 7n + 15 = 5$

7)  $n^2 - 10n + 22 = -2$

8)  $n^2 + 3n - 12 = 6$

9)  $6n^2 - 18n - 18 = 6$

10)  $7r^2 - 14r = -7$

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11)  $n^2 + 8n = -15$

12)  $5r^2 - 44r + 120 = -30 + 11r$

13)  $-4k^2 - 8k - 3 = -3 - 5k^2$

14)  $b^2 + 5b - 35 = 3b$

15)  $3r^2 - 16r - 7 = 5$

16)  $6b^2 - 13b + 3 = -3$

17)  $7k^2 - 6k + 3 = 3$

18)  $35k^2 - 22k + 7 = 4$

19)  $7x^2 + 2x = 0$

20)  $10b^2 = 27b - 18$

21)  $8x^2 + 21 = -59x$

22)  $15a^2 - 3a = 3 - 7a$