

Solving Quadratic Equations by Factoring

Date_____ Period____

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

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

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

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

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

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

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

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

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

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

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

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

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



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



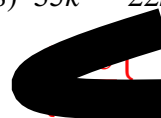
16) $6b^2 - 13b + 3 = -3$



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

