

Factoring & Solving Quadratics - TEST REVIEW Date _____ Period _____

In order to get credit for this assignment, and to be successful on the test, you must completely understand (and show your work) using the X-Box Method for factoring Trinomials. Just providing a final answer will NOT get you credit for this review. The test is going to be written based on the steps you have learned during our live lessons and assigned videos. Using Photomath will not help you with most of the questions.

This assignment (and the test) includes all of the factoring types, so be careful. Factor each completely:

1) $7b^2 + 5b$

2) $9a^2 - 12a + 4$

3) $-18x^6 + 6x^5 + 14x^4 + 12x^3$

4) $4n^2 - 25$

5) $n^2 + 8n - 20$

6) $16n^2 - 1$

7) $n^2 + 3n - 54$

8) $9x^2 + 30x + 25$

9) $70x^3 + 80x$

10) $5n^2 + 17n - 12$

11) $16x^2 - 25$

12) $9x^2 + 21x + 10$

13) $2n^2 - 2n - 12$

14) $9x - 27$

15) $x^2 + 9x + 8$

16) $12n^2 - 75$

17) $6x^2 - 33x + 42$

18) $36x^2 - 64$

19) $-9n^2 - 4n$

20) $9m^2 + 3m - 20$

Answers to Factoring & Solving Quadratics - TEST REVIEW (ID: 1)

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|-------------------------|------------------------|----------------------------------|------------------------|
| 1) $b(7b + 5)$ | 2) $(3a - 2)^2$ | 3) $2x^3(-9x^3 + 3x^2 + 7x + 6)$ | |
| 4) $(2n + 5)(2n - 5)$ | 5) $(n - 2)(n + 10)$ | 6) $(4n + 1)(4n - 1)$ | 7) $(n - 6)(n + 9)$ |
| 8) $(3x + 5)^2$ | 9) $10x(7x^2 + 8)$ | 10) $(5n - 3)(n + 4)$ | 11) $(4x + 5)(4x - 5)$ |
| 12) $(3x + 5)(3x + 2)$ | 13) $2(n - 3)(n + 2)$ | 14) $9(x - 3)$ | 15) $(x + 1)(x + 8)$ |
| 16) $3(2n + 5)(2n - 5)$ | 17) $3(2x - 7)(x - 2)$ | 18) $4(3x + 4)(3x - 4)$ | 19) $-n(9n + 4)$ |
| 20) $(3m - 4)(3m + 5)$ | | | |