

Review #3

Name _____

Date _____

1) $x^2 - 10x + 24$	2. $24x^2 - 8x$	3. $m^2 - 11m + 18$
4) $9m^2 + 30m + 25$	5. $2m^2 - 11m + 15$	6. $x^2 + x - 20$
5) $16x^2 + 24x + 9$	8. $16m^2 - 49$	9. $10x^2 + 35x$
10) $x^2 - 25$	11. $2x^2 - 27x + 36$	12. $2x^2 - 19x + 24$
13) $4x^2 - 22x + 10$	14. $3x^2 + 4x - 7$	15. $10x^2 + 13x - 30$
16. $9x^2 - 49$	17. $9x^2 - 6x + 1$	18. $36x^2 + 84x + 49$
19) $81x^2 - 90x + 25$	20. $8m^2 - 10m + 3$	21. $5h^2 - 2h - 7$

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Factoring

Factoring Trinomials of the form $ax^2 + bx + c$

$$3x^2 - 9x - 12 = 3(x^2 - 3x - 4) = 3(x - 4)(x + 1)$$

Factor.

1. $5x^2 - 10x - 15$

11. $3x^2 - 4x - 32$

2. $6x^2 - 15x - 21$

12. $4x^2 - 16x + 15$

3. $3x^2 - 10x + 7$

13. $4x^2 + 7x - 15$

4. $2x^2 - 11x - 21$

14. $6a^2 - 21a + 15$

5. $4x^2 + 2x - 20$

15. $11x^2 + 122x + 11$

6. $3x^2 - 5x - 12$

16. $3x^2 - 20x - 7$

7. $7x^2 - 26x - 8$

17. $2y^2 - 17y + 35$

8. $12x^2 - 6x - 18$

18. $4x^2 - 16x + 15$

9. $6x^2 - 13x + 6$

19. $6x^2 + 25x + 25$

10. $2x^2 + 9x + 10$

20. $7c^2 - 16c + 9$

Factor each polynomial by grouping.

11. $2x^3 + 8x^2 + 3x + 12$

12. $4n^3 + 3n^2 + 4n + 3$

13. $10d^2 - 6d + 35d - 21$

14. $12n^3 - 15n^2 - 8n + 10$