

Review Factoring notes.notebook

REVIEW: FACTORING

<u>Examples</u>	
GCF (Greatest Common Factor)	1. $4m^3n^2 + 12mn$ Factored: $(4mn)(m^2n)$
Trinomial	2. $x^2 - 6x + 5$ Factored: $(x-1)(x-5)$
Difference of Two Squares	3. $36x^2 - 121$ Factored: $(6x+11)(6x-11)$

Be careful! Four of the following problems DO NOT FACTOR.

Factor the Following Polynomials Completely

1) $x^2 + 4x$

2) $x^2 - 5x - 6$

3) $x^2 + 8x + 16$

4) $x^2 - 25$

5) $x^2 + 25$

6) $x^2 - 4x + 4$

7) $x^2 - 9x$

④ example

$25x^2 - 100$

$(5x-10)(5x+10)$ $(25(x^2-4))$

$5(x-2) 5(x+2)$ $25(x+2)(x-2)$

8) $x^2 - 10x + 16$

9) $25x^2 - 4$

10) $x^2 + 4x - 2$

11) $x^2 + 3x + 2$

12) $25x^2 - 100$

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19) $x^2 - 10x + 25$

20) $x^2 + 6x - 7$

21) $2x^2 - 8$

22) $x^2 - 81$

23) $x^2 - 20x + 100$

24) $x^2 + x$

25) $x^2 + 1$

26) $x^2 + 6xy + 9y^2$

27) $4x^2 - 36$

28) $x^2 - 20$

29) $x^2 - 22xy + 121y^2$

30) $x^2 - 12x - 28$

