

MATH 0372 – POLYNOMIALS – FACTORING II

Instructions: Factor each of the following completely

1. $12x^2 - 11x + 2$

2. $9x^2 - 12xy + 4y^2$

3. $2y^3 + 20y^2 + 50y$

4. $16 - x^4$

5. $8y^3 - 1$

6. $8 - 14x^n - 15x^{2n}$

7. $27 + r^3$

8. $16x^3y^2 - 4xy^2$

9. $16x^2 + 16x - 1$

10. $18 - 2a^{2n}$

11. $16x^5 - 44x^4 + 30x^3$

12. $x^{2n+1} + 2x^{n+1} - 15x$

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1. $(4x-1)(3x-2)$	2. $(3x-2y)^2$	3. $y(2y+10)(y+5)$
4. $-(x+4)(x-4)$	5. $(2y-1)(4y^2+2y+1)$	6. $-(5x^n-2)(3x^n+4)$
7. $(r+3)(r^2-3r+9)$	8. $4xy^2(2x+1)(2x-1)$	9. $16x^2+16x-1$
10. $-2(a^n+3)(a^n-3)$	11. $2x^3(2x-3)(4x-5)$	12. $x(x^n-3)(x^n+5)$

