

HW 5 - Factoring Continued

Name Key Spring 2017
 3. $x^2 + 10x - 11$ trinomial

1. $(a^2 - a) - (ac + c)$ Grouping

2. $2x^3y^5 + 10x^2y^6$ GCF

3. $x^2 + 10x - 11$ trinomial

$a(a-1) - c(a-1)$

$2x^2y^5(x+5)$

$(x+11)(x-1)$

$(a-1)(a-c)$

4. $x^2 - 2x - 35$ trinomial

5. $4x^2 + 8$ GCF

6. $x^{15} + 1$ perfect cubes

$(x-7)(x+5)$

$4(x^2+2)$

$(x^5+1)(x^{10}-x^5+1)$

7. $9x^4 - 16y^{18}$ perfect squares

8. $(abc + 7a^2) + (2b^2c + 14ab)$ Grouping

9. $x^3 + 27$ perfect cubes

$(3x^2 - 4y^9)(3x^2 + 4y^9)$

$a(bct+7a) + 2b(bct+7a)$

$(x+3)(x^2-3x+9)$

$(bct+7a)(a+2b)$

10. $(6pr+3p^2) + (pn+2nr)$ Grouping

11. $5x^2 - 50x + 120$ GCF

12. $7xy - 14x^4y^3$ GCF

$3p(2r+p) + n(p+2r)$

$5(x^2 - 10x + 24)$ trinomial

$7xy(1 - 2x^3y^2)$

$(2r+p)(3p+n)$

$5(x-4)(x-6)$

13. $9x^2 + 12x + 4$ trinomial

14. $25 - 121x^8$ perfect squares

15. $343x^{12} - 729y^{18}$ perfect cubes

$\frac{(9x+6)(9x+6)}{3 \quad 3}$

$(5-11x^4)(5+11x^4)$

$(7x^4 - 9y^6)(49x^8 + 63xy^6 + 81y^{12})$

$(3x+2)(3x+2)$