Study Guide

Factoring

1. GGF
2. Trinomials (3)
3. Special Trinomials (3)
4. Dif. of Perfect Squares (2)
5. Grouping (4)

pg 635 #19-31 odd

(19) $x^2 - 21x + 108 = 0$

$(x - 9)(x - 12) = 0$

$x = 9, 12$

(21) $x^2 + 26x = -169$

$x^2 + 26x + 169 = 0$

$(x + 13)(x + 13) = 0$

$x = -13$

3) $2x^2+5x-12$

$x^2+5x-24$

$(x+\frac{8}{2})(x-\frac{3}{2})$

$(x+4)(2x-3)$

25) $4x^2-12x+9$

$x^2-12x+36$

$(x-\frac{6}{4})(x-\frac{6}{4})$

$(x-\frac{3}{2})(x-\frac{3}{2})$

$(2x-3)^2$

(27) $6x^2+24x+9$

$x^2+24x+144$

$(x+\frac{12}{16})(x+\frac{12}{16})$

$(x+\frac{3}{4})(x+\frac{3}{4})$

$(4x+3)^2$

(29) $-2x^5-2x^4+4x^3$

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

$-2x^3(x-1)(x+2)$

(31) $(3x^3+x^2)+(15x+5)$

$x^2(3x+1)+5(3x+1)$

$(3x+1)(x^2+5)$

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