

Unit 2 Factors and Products Page 1

1115. 311410 Γ. α Γ.-C. IU 4m other factor 6=2.3 15=3.5 Example 2: Factor each polynomial.  $\chi^2 = \chi \cdot \chi$ b)  $24x^2y^3 - 18x^3y$ a)  $6x^2 - 15x^3$ XGC 24=2·2·2·3 18=2·3·3 GCF=2·3XXY  $\frac{6x^{2}-15x^{3}}{3x^{2}}$  $GCF = 6x^2y$ Y-XI) (2-5x) other factor ¥  $24x^{4}y^{3}$  $\frac{1}{3}x^{2}(2-5x)$ -1<u>8x</u>Y  $6x^{2}y(4y^{2}-3x)$ other (L ·3x) d)  $-3x^3 - 9x^2 + 12x$ c)  $4x^2 - 6x + 12$  $\chi^{3} = \chi \cdot \chi \cdot \chi$  $\chi^{2} = \chi \cdot \chi$  $\chi = \chi$ 2 = 3 GCF = 212 G(F=3x  $\frac{4x^2}{7} - \frac{6x + 12}{2}$  $-\frac{3x^{3}}{3x} - \frac{9x^{2}}{3x} + \frac{12x}{3x}$  $(2x^2 - 3x + 6)$  other factor  $(-x^2 - 3x + 4)$  other factor  $2(2x^{2}-3x+6)$  $3x(-x^2-3x+4)$ or if GCF=-3x  $=3x(x^2+3x-4)$ Mrs. Shaw F. & P.-C. 10

Unit 2 Factors and Products Page 2