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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

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