FRIDAY :

$$E_{\underline{x}} = 5a + 10ax - 5ay - 30az = 5a(1 + ax - y - 4z)$$

$$Think: x^{2} - y^{2} = (x - y)(0 + y)$$

$$E_{\underline{x}} = (a - b)^{2} - 1 = (a - b - 1)(a - b - 1)$$

$$= (a - b)^{2} - 1^{2}$$

$$F_{\underline{X}} = \alpha(x+2)^{2} - \alpha \chi^{2} = \alpha(x+2)^{2} - \chi^{2}$$

$$= \alpha(x+2) - \chi^{2} = \alpha(x+2) - \chi^{2} = \alpha(x+2) - \chi^{2} = \alpha(x+2) - \chi^{2} = \alpha(x+2-\chi)(2x+2)$$

$$= \alpha(x+2-\chi)(2x+2)$$

$$= \alpha(2x+2) - \alpha\chi^{2} = \alpha(2x+2) = 2\alpha(2x+2)$$

$$= \alpha(2x+2) - \alpha\chi^{2} = \alpha(2x+2) = 2\alpha(2x+2)$$

$$= \alpha(2x+2) - \alpha\chi^{2} = \alpha(2x+2) = 2\alpha(2x+2)$$

$$= \alpha(2x+2) - \alpha\chi^{2} = \alpha(2x+2)$$

Factoring by Grouping: (use this when factoring 4 terms)

$$(3x-3y)+(bx-by)$$

 $3[x-y]+b[x-y]$
 $[x-y](3+b)$
 $(x-y)(x+y)+(x-y).[$
 $(x-y)(x+y+1)$

#69, p. 183



