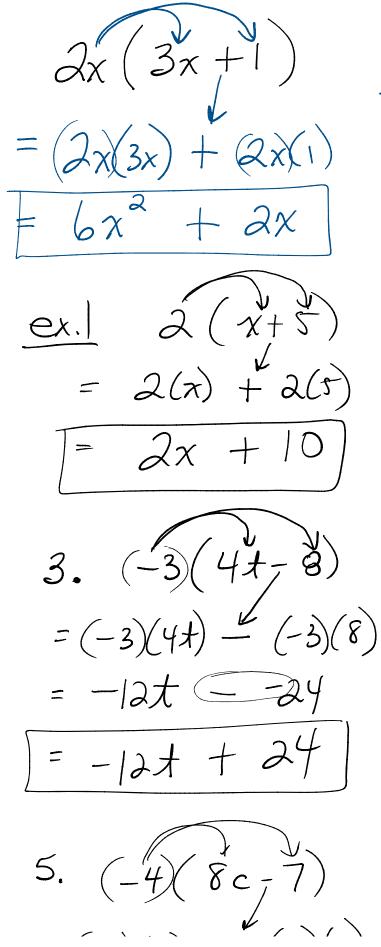
4.4 Multiply Polynomials by Monomials



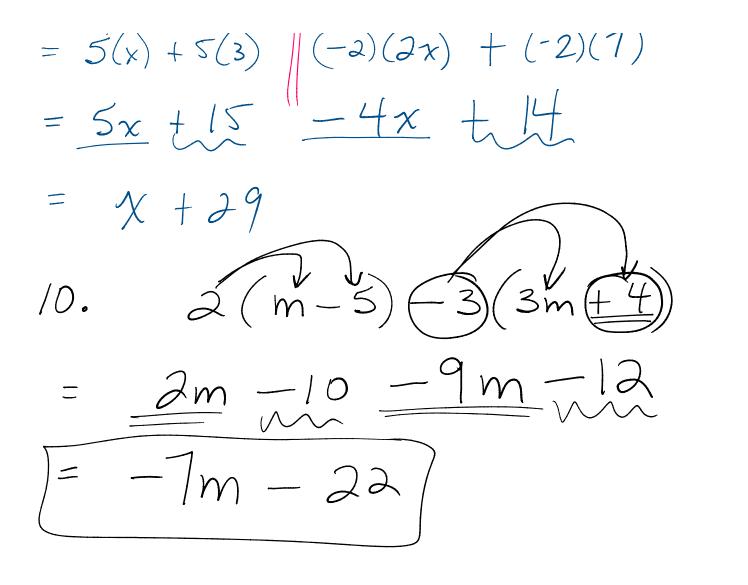
DISTRIBUTIVE PROPERTY expanding by multiplying the monomial by each term in the polynomial ex2, 3(4t-8)= 3(4t) - 3(8)= 12t - 24 4. (-2)(5c + = (-2)(5c) + (-2)(3)= -10c(+| = -10c - 6|

= (-4)(8c) - (-4)(7)-32c - 28-32c + 28b. 4x(5x-3) 3xy7. (5x-3)(4x) $(5x)(Y_x) - 3(Y_x)$ $= (4_{X})(5_{X}) - (4_{X})(3)$ SAME $= 20x^2 - 12x$ $= 20\chi^2 - 12\chi$ expand and simplify 8. 6(x+3) - 7(2-4x)= 6(x) + 6(3) (-7(2) = (-7)(4x)

 $= \frac{6x + 18}{14} - \frac{14}{14} + \frac{28x}{28x}$

= 34x + 4

9. 5(x+3) - 2(2x-7)= 5(x) + 5(3) (-2)(2x) + (-2)(7)



120 # / (don't draw), 4, 5, 7, 9-12