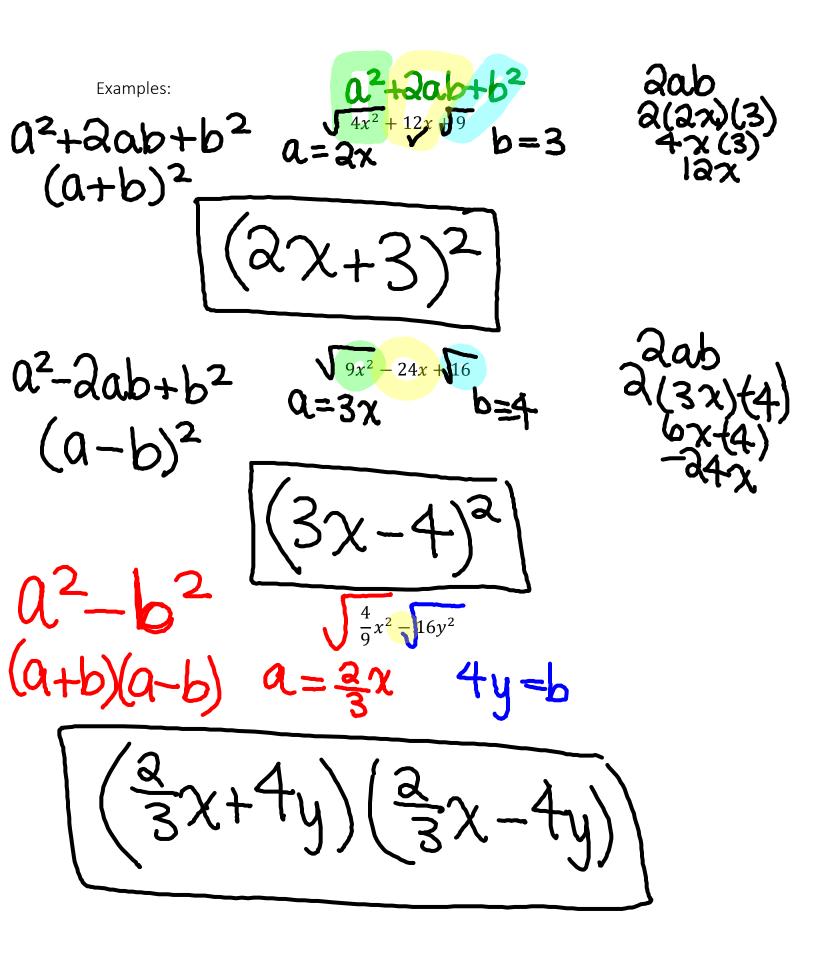
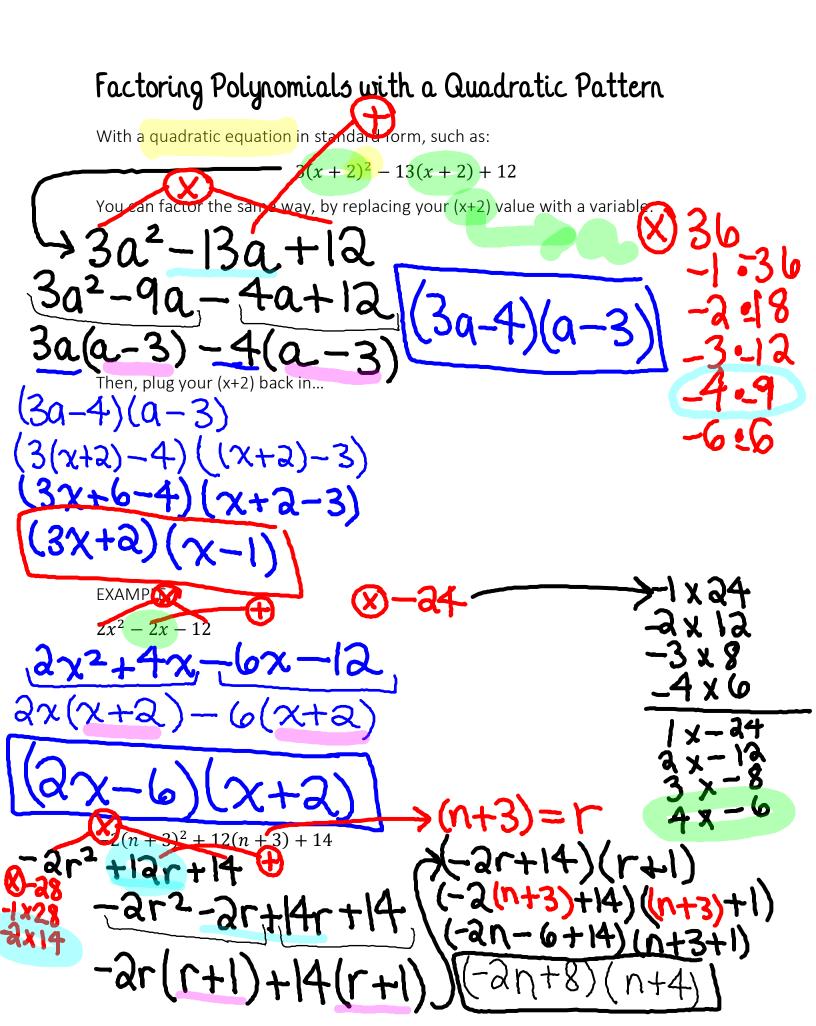
NAME:

U3:L5 Factoring Quadratic Equations

Factoring equations always starts with factoring out common factors, if possible. $20x^{2} + 40x + 60$ -2x +3) Secondly, you can expand the second terms find similar terms for your first and third, to group. third, to group. This allows you to again, factor out common factors to simplify: a) + 31 Perfect square trinomials with a positive b, will factor following the pattern: a^2 + dab + b^2 $(a+b)^2$ Whereas, perfect square trinomials with negative b, will factor as: $a^2 - aab +$ You can factor a difference of squares as:





Factoring the Difference of Squares

You can factor a "difference of squares" polynomial as:

$$P^2 - Q^2 = (P - Q)(P + Q)$$

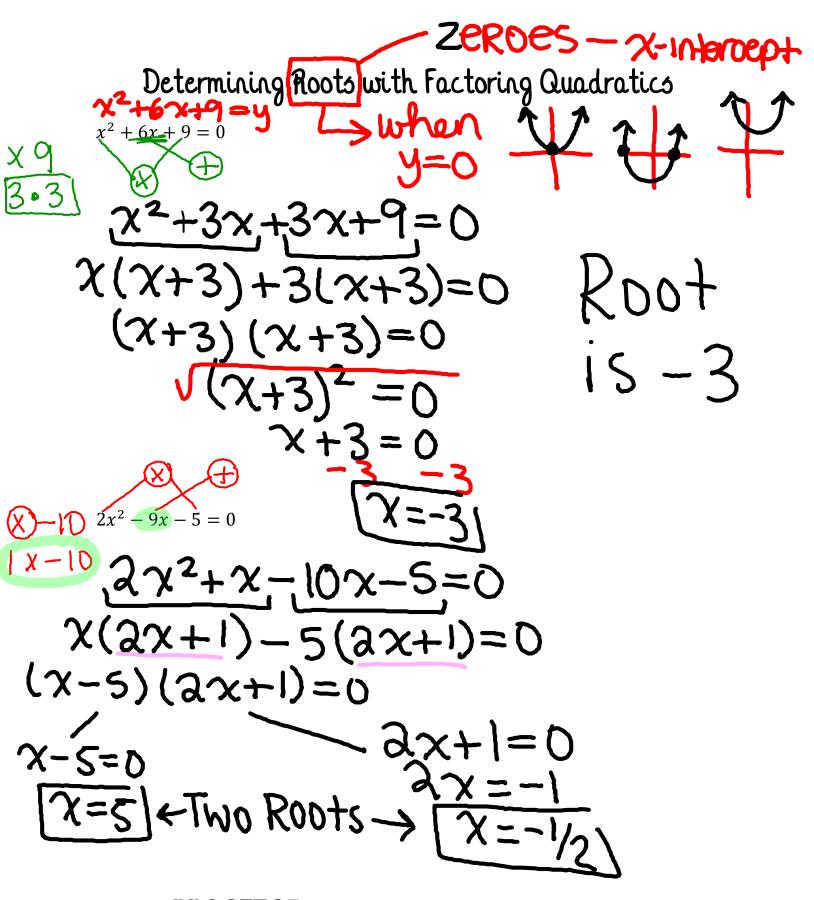
When P and Q are any expression. For example:

 $a^2 - b^2$ (a+b)(a-b)

EXAMPLE: $9x^2 - 0.64y^2$ a=3x b=0.8y

3X+0.84 [3x-0.8y]]

۷___ $4(x-2)^2 = 0.25(y-4)^2$ a = a(x-a) = 0.5(y-4)(Q. (a(x-a)+0.5(y-4))a(x-a)+0.5(y-4))(a(x-a)-0.5(y-4))(a(x-a)-0.5(y-4))(ax-4+0.5y-2)(ax-4)-0.5(y+2))X4054x-054



PRACTICE: Page 229 Questions 1-10 (only letter a)