$ax^2 + bx + c$ (2, 1) Same signs; both needs to be positive

$ax^2 - bx - c$ (2, 1) opposite signs, larger number is negative

$-x^2 + 12x - 11$

$-(x^2 - 12x + 11)$ (2, 1)

Same sign, both neg.

Apr 15-10:08 AM

Exam #3 - next Friday April 22, 2016

All Chp 6 - Factoring

Apr 15-10:14 AM

Difference of Two Squares

$a^2 - b^2 = (a+b)(a-b)$ Factored Form

a^2 b^2

? $a' =$ $b' =$

$49y^2 - 4$ Dif

a^2 b^2

$a' = 7y$, $b' = 2$ $\}$ $(7y+2)(7y-2)$

Apr 15-10:21 AM

$x^2 - 1$

$a' = x$, $b = 1$ $(x+1)(x-1)$

$81 - 169g^2 \neq (13g+9)(13g-9)$

$a' = 9$, $b' = 13g$ $\}$ $(9+13g)(9-13g)$

$a^2b^2 - 16x^2$

$a' = ab$, $b' = 4x$ $\}$ $(ab+4x)(ab-4x)$

$25x^4 - 1$

$a' = 5x^2$, $b' = 1$ $\}$ $(5x^2+1)(5x^2-1)$

Apr 15-10:27 AM

$x^8 - 4$

$a' = x^4$, $b' = 2$ $\}$ $(x^4+2)(x^4-2)$

$(x^2+\sqrt{2})(x^2-\sqrt{2})$

Apr 15-10:33 AM

Difference / Sum of Two Cubes

① Difference

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

$= a^3 + a^2b + ab^2 - a^2b - ab^2 - b^3$

$= a^3 - b^3$

$27x^3 - 8$

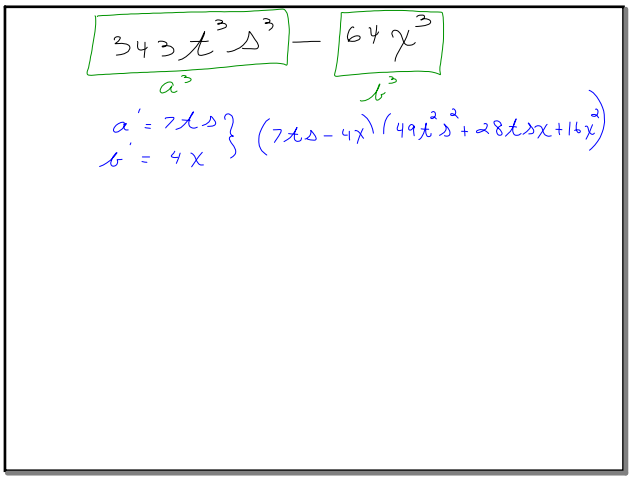
a^3 b^3

$a' = 3x$, $b = 2$ $\}$ $(3x-2)(9x^2+6x+4)$

$y^3 - 125$

$a' = y$, $b' = 5$ $\}$ $(y-5)(y^2+5y+25)$

Apr 15-10:36 AM



Apr 15-10:47 AM