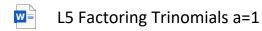
L5 Factoring Trinomials a=1

Friday, September 16, 2022 11:06 AM



Intro Applied & Pre-Calculus 10 Factors and Products

Lesson 5 Factoring Trinomials

Factoring Trinomials

Trinomial: a polynomial containing three terms

Form: $ax^2 + bx + c$, where a = 1

In order to factor we can determine our factors using PSF

Product (a · c) 1 · 6
Sum (b) 5
Factors of the product (a)(c) (that have a sum of b)

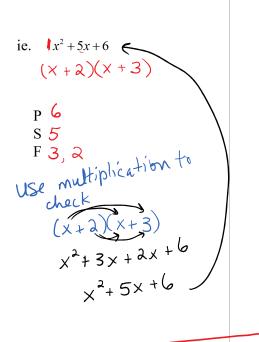
Example 1 Factor.

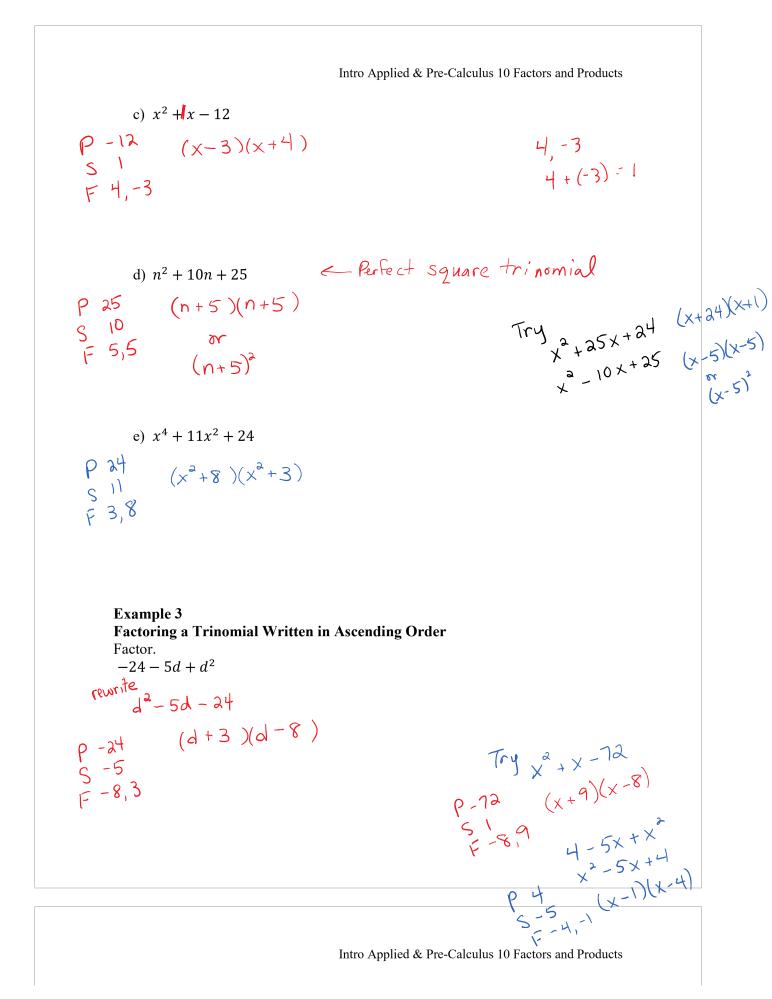
a)
$$\|x^2 - 2x - 8$$

 $\times^{a} + (-a_{x}) + (-8)$
P -8 $a^{=1}$ $b^{=-2}$ $c^{=-8}$
S -2
F a, -4 $(x-4)(x+a)$ *e* binomial
factors

b)
$$x^2 - 12x + 35$$

(x - 7)(x - 5)
(x - 7)(x - 5)
(x - 5)
(x - 5)
(x - 5)
(x - 5)





5-54,-1

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Example 4 Factoring a Trinomial with a Common Factor Factor. a.) $2x^2 - 4x - 30$

b.) $-5h^2 - 20h + 60$