1. Factoring Univariate Trinomials

Example 1.1 – id:20151015-184212.
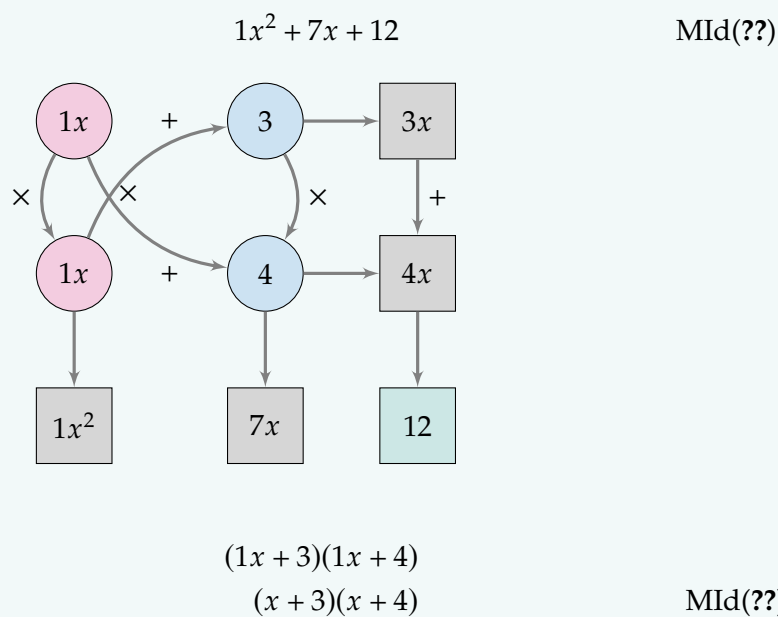
Simplify by factoring $x^2 + 7x + 12$

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Solution:

Using the distributive property organizer

The factors of $(x^2 + 7x + 12)$ are $(x + 3)(x + 4)$

$$1x^2 + 7x + 12 \qquad\qquad \text{MId(??)}$$

$$(1x + 3)(1x + 4)$$
$$(x + 3)(x + 4) \qquad\qquad \text{MId(??)}$$

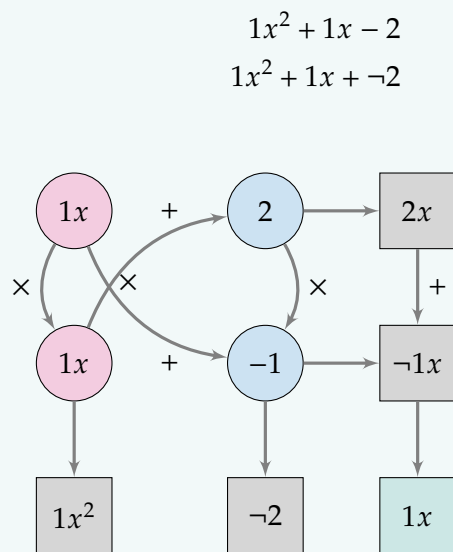**Example 1.2 – id:20151016-063338.**

Simplify by factoring $x^2 + x - 2$

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Solution:

Using the distributive property organizer

The factors of $(x^2 + x - 2)$ are $(x + 2)(x - 1)$

$$1x^2 + 1x - 2 \qquad\qquad \text{AId(??)}$$
$$1x^2 + 1x + \neg 2 \qquad\qquad \text{DOS(??)}$$

$$(1x + 2)(1x + \neg 1)$$
$$(1x + 2)(1x - 1) \qquad\qquad \text{MId(??)}$$
$$(x + 2)(x - 1) \qquad\qquad \text{MId(??)}$$