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$$f(x) = \int_{x}^{2x} x^2 \, dx$$

red

blue

$$= \int_{x}^{2x} t^2 \, dt$$

$$= \int_{x}^{2x} sq$$

where $sq\ x = x^2$

$sq\ t = t^2$

See book section 1.7.2

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"the function f(x)"

"the function $f : \mathbb{R} \to \mathbb{R}$"

$\mathbb{B} = Bool = \{F, T\}$

$\mathbb{N}, \mathbb{Z}, \mathbb{Q}, \mathbb{R}, \mathbb{C}$ -- base types

$\mathbb{B} \to \mathbb{B} = \{id, not, const\ False, const\ T\}$

See book section 1.7

Types

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$\mathbb{B} = \mathrm{Bool} = \{F, T\}$

$\mathbb{N}, \mathbb{Z}, \mathbb{Q}, \mathbb{R}, \mathbb{C}$ -- base types

$\mathbb{B} \to \mathbb{B} = \{\mathrm{id}, \mathrm{not}, \mathrm{constFalse}, \mathrm{constT}\}$

See book section 1.1

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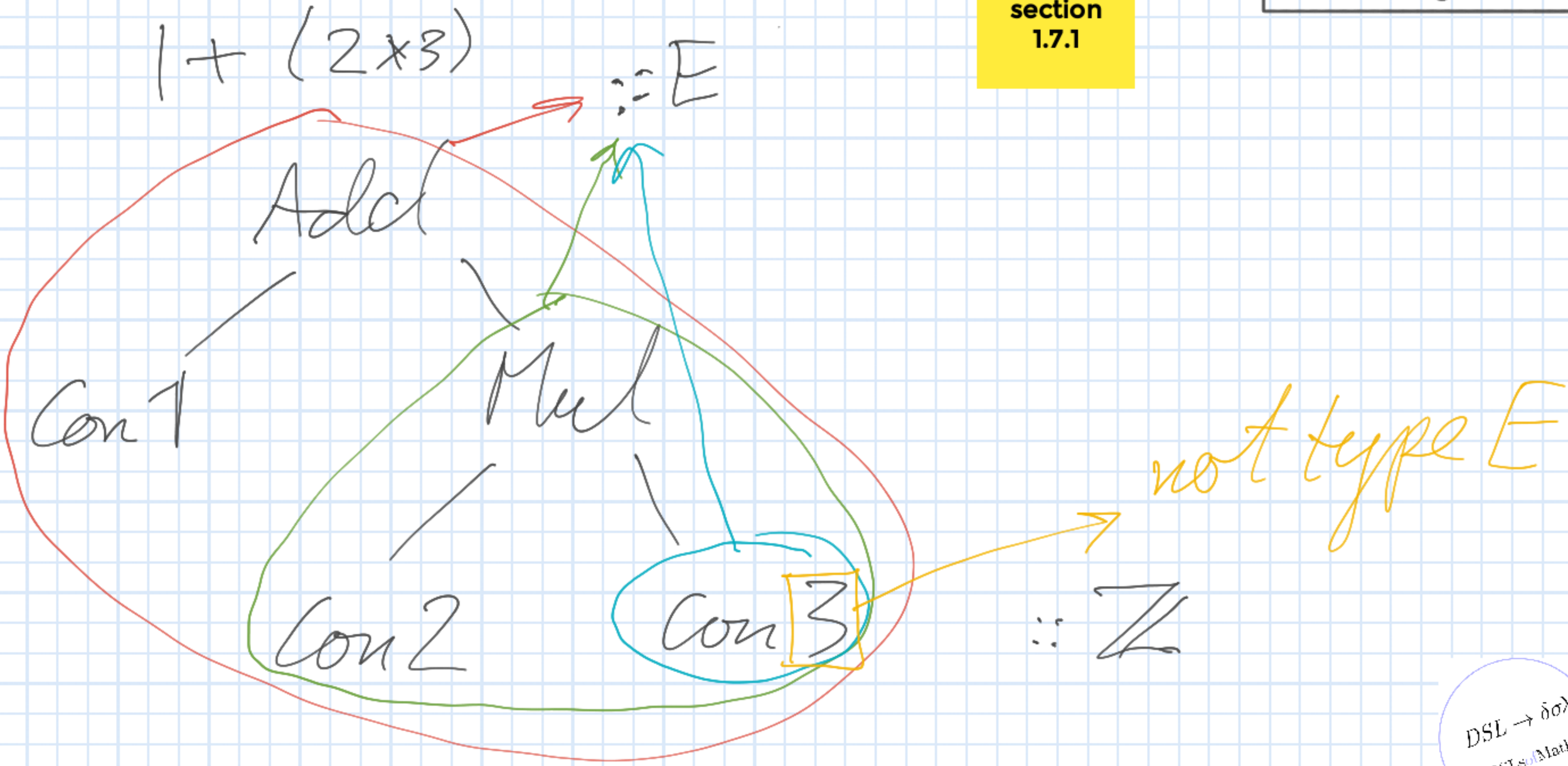
See book section 1.7.1



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