

Entrega 6

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$$(\text{fun } x.x + x)((\text{fun } y.y)3)$$

CBN

$$\frac{\frac{\frac{\overline{\Gamma \vdash \text{fun } x.x + x \hookrightarrow \langle x, x + x, \emptyset \rangle}}{x = \langle ((\text{fun } y.y)3), \Gamma \rangle \vdash x \hookrightarrow 3} \quad \frac{\frac{\frac{\overline{\vdash 3 \hookrightarrow 3}}{\vdash \text{fun } y.y \hookrightarrow \langle y, y, \emptyset \rangle} \quad \frac{\overline{\vdash 3 \hookrightarrow 3}}{y = \langle 3, \emptyset \rangle \vdash 3 \hookrightarrow 3}}{\vdash (\text{fun } y.y)3 \hookrightarrow 3}}{\vdash (\text{fun } y.y)3 \hookrightarrow 3}}}{x = \langle ((\text{fun } y.y)3), \Gamma \rangle \vdash x + x \hookrightarrow 6} \quad \frac{\overline{\Gamma \vdash \text{fun } x.x + x \hookrightarrow \langle x, x + x, \emptyset \rangle}}{\Gamma(\text{fun } x.x + x)((\text{fun } y.y)3) \hookrightarrow 6}$$

CBV

$$\frac{\Gamma \vdash \text{fun } x.x + x \hookrightarrow \langle x, x + x, \emptyset \rangle}{\Gamma(\text{fun } x.x + x)((\text{fun } y.y)3) \hookrightarrow 6} \quad \frac{\frac{\frac{\overline{\vdash 3 \hookrightarrow 3}}{x = 3 \vdash x \hookrightarrow 3} \quad \frac{\overline{\vdash 3 \hookrightarrow 3}}{x = 3 \vdash x \hookrightarrow 3}}{x = 3 \vdash x + x \hookrightarrow 6} \quad \frac{\overline{\Gamma \vdash \text{fun } y.y \hookrightarrow \langle y, y, \emptyset \rangle} \quad \frac{\overline{\vdash 3 \hookrightarrow 3}}{y = \langle 3, \emptyset \rangle \vdash y \hookrightarrow 3}}{\Gamma \vdash (\text{fun } y.y)3 \hookrightarrow 3}$$