$$\mathbf{A} - \mathbf{Prop} \frac{S \models \operatorname{len} x \approx \operatorname{len} y}{A \models LLA \operatorname{len} x \approx \operatorname{len} y}$$

$$\mathbf{S} - \mathbf{Prop} \frac{A \models LLA \operatorname{len} x \approx \operatorname{len} y}{S \vdash S, \operatorname{len} \approx \operatorname{len} y}$$

$$\mathbf{Len} x \in C(S) x \in V(S)$$

$$\mathbf{Len} x \vdash A, \operatorname{len} x \approx \operatorname{len} y$$

$$\mathbf{Len} S = \operatorname{Polit} \frac{x \in V(S \cup A) x : Str}{S \vdash S, x \in \mathbb{N}} = \operatorname{len} x > 0$$

$$\mathbf{A} - \operatorname{Conflict} \frac{A \models LLA \vdash LLA}{\operatorname{unsat}}$$

$$\mathbf{R} - \operatorname{Star} \frac{A \vdash LLA \vdash LLA}{\operatorname{unsat}} = \operatorname{len} x = \operatorname{len} x = 0$$

$$\mathbf{A} - \operatorname{Conflict} \frac{A \vdash LLA \vdash LLA}{\operatorname{unsat}} = \operatorname{len} x = \operatorname{len} x = 0$$

$$\mathbf{A} - \operatorname{Conflict} \frac{A \vdash LLA \vdash LLA}{\operatorname{unsat}} = \operatorname{len} x = \operatorname{len} x = 0$$

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