$$\frac{\overline{A(x)}^{0}}{\overline{\exists x \ A(x)}^{3}} \xrightarrow{\overline{A(x)}^{0}} \underbrace{\frac{\overline{A(x)}^{1}}{\overline{\exists x \ A(x)}^{2}}}_{\underline{\exists x \ A(x)}^{2}} \xrightarrow{\overline{A(u)}^{1}} \underbrace{\frac{\overline{\forall x \ \neg A(x)}^{3}}{\overline{\neg A(u)}}}_{\underline{\neg A(u)}^{1}} \underbrace{\frac{\overline{\exists x \ A(x)}^{2}}{\overline{\neg A(u)}^{2}}}_{\underline{\neg \exists u \ A(u)}^{3}}$$