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Intuitionistic Logic

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ASSIGNMENT Project Exam Help • Let Q be the set of rational numbers and I be the set of irrational numbers.

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 - Other Add We Chat edu_assist_pro

Assignment Project Exam Help Let Q be the set of rational numbers and I be the set of irrational numbers.

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- Proof:
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 - - Pick $x = \sqrt{2}$ and $v = \sqrt{2}$
 - Otherwise in 2 We Chat edu_assist_pro

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- Proof:
 - Consiluttps://eduassistpro.github.io/
 - - Pick $x = \sqrt{2}$ and $v = \sqrt{2}$
 - Otherwise in 12 We Chat edu_assist_pro
 - Pick $x = \sqrt{2}^{\sqrt{2}}$ and $v = \sqrt{2}$
 - Then $x^y = (\sqrt{2}^{\sqrt{2}})^{\sqrt{2}} = \sqrt{2}^2 = 2$ so $x^y \in \mathbb{O}$

Recall: The Curry-Howard Isomorphism

This correspondence goes by many names, but is usually attributed to Haskell Curry and William I want ment Project Exam Help

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Recall: The Curry-Howard Isomorphism

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It turns out, no matter what logic you want to define, there is alway

λ-calculus, and Acederal. We Chat edu_assist_pro

Classical Logic
Modal Logic
Linear Logic

Separation Logic

Continuations
Monads
Linear Types, Session Types
Region Types

Translating

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We can translate logical connectives to types and back:

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True ()
We can also translate our equational reasoning edu_assist_pro

on proofs!

Constructors and Eliminators for Sums

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Example (Tra

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 $\underbrace{A_{\text{Green}}^{\text{Red}} \ We \overset{\sim}{\overset{\text{Left ()}}{\overset{\text{left ()}}{\overset{\text{colo}}{\overset{colo}}{\overset{\text{colo}}{\overset{\text{colo}}{\overset{c}{\overset{c}}{\overset{c}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}{\overset{c}}}{\overset{c}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}}{\overset{c}}{\overset{c}}$

Type Correctness

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Type Correctness

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Type Correctness

Correction 0000

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<u>Γ⊢()::()</u> https://eduassistpro.github.io/

> Add We Chat edu_assist_pro Right (Right ()) :: Either () (Either () ())

Examples

```
prop_or_false :: a -> (Either a Void)
PropArsisignment Project Exam Help
prop_or_true :: a -> (Either a ())
prop_or_tru
          https://eduassistpro.github.io/
prop_and_true a = (a, ())
prop_double_Add WeChateduoidassist_pro
prop_double_neg_intro a f = f a
prop_triple_neg_elim ::
  (((a\rightarrow Void) \rightarrow Void) \rightarrow Void) \rightarrow a \rightarrow Void
prop_triple_neg_elim f a = f (\g -> g a)
```

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- Assignment Project Exam Help
- 2 There is a guiz for this week, but no exercise.

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- Assignment Project Exam Help
- 2 There is a quiz for this week, but no exercise.
- Next week' revision Inttps://eduassistpro.github.io/

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- Next week' ems and a revision Intere will be a There will be a Ther
- specific questions
- If you enjoyed the counterand want to do mer in this directions topics, taste of research projects, and consider attendi_assist_pro COMP4161.

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- specific questions
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- Fill in the myExperience reports, it is important for us to receive your feedback.

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