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- Classical lo
- Intuitionis https://eduassistpro.githันซี.io/
- In classical logic more can be proven but less can be expresse
- Intuitionistic proof of a wristen contatement gives a wit assist_pro

- Consider th
- Proof:

Intuitionistic Logic

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- Consi https://eduassistpro.github.io/
- 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.

- Consider th
- Proof:
 - https://eduassistpro.github.io/
 - - Pick $x = \sqrt{2}$ and $v = \sqrt{2}$
 - Otherwise in 2 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.

- Consider th
- Proof:
 - Consiluttps://eduassistpro.github.io/
 - - Pick $x = \sqrt{2}$ and $v = \sqrt{2}$
 - * Add WeChat 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 Howard ment Project Exam Help

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

λ-calculus, and Acedersh. 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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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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Type Correctness

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https://eduassistpro.github.io/ $\frac{???}{AddWethbarket(Shift)} = \frac{Re::B}{Either\ AB} S_R$ $\frac{???}{AddWethbarket(Shift)} = \frac{Right\ (Right\ (Left\ ()))::Either\ ()\ (Either\ ()\ ())}{Either\ ()\ (Either\ ()\ ())} S_R$

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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)
```

Wrap-up

- Assignment Project Exam Help
- ② There is a quiz for this week, but no exercise.
- Next week'
 revision Ithtps://eduassistpro.github.io/
 There will be a
- There will be a specific questions
- If you enjoyed the counterand want to do more in this directions topics, taste of research projects, and consider attendi_assist_pro_COMP4161.
- Fill in the myExperience reports, it is important for us to receive your feedback.

Consultations

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- Consultations will be made on request. Ask on piazza or email cs3141@c
- If there is interpose the second of the se
- Will be in the Thursday lecture slot, 9am to 11am on Blackb
- Make sure this in the dweet Homea Be control shares start pro (ghci or stack repl) and editor set up.