Lecture 20
Let
$$S = (f)$$
 way predicate

Consider $(p - (3 \times f(x)) \cdot f(y))$

and $S_1(y) = \begin{cases} 0 & \text{if } y = y \\ 0 & \text{otherwise} \end{cases}$
 $S_2(y) = \begin{cases} 0 & \text{if } y = y \\ 0 & \text{otherwise} \end{cases}$

$$M = 4ISJ \leftarrow it's true$$
 $M = f(y) [SJ = it's true]$
 $M = (3 \times f(x)) [SJ = it's true]$

tov x in range(1,11)

print x

$$M = (Z; 4; +) \text{ of } S = (4; +)$$
Let $V = (J \times x + y \le Z)$

$$M' = (MU \downarrow 0 \Im_1 (4) +)$$
Let $S_i(0) = \begin{cases} 0 & \text{if } v = x \\ 0 & \text{if } v = y \\ 0 & \text{otherwise} \end{cases}$

$$S_i(0) = \begin{cases} 0 & \text{if } v = x \\ 0 & \text{otherwise} \end{cases}$$

$$S = (2, 0, 0)$$

$$Q = (3 \times 2(0, 0)(x, y), 2)$$

$$M = (7, 4 \text{ for } -0)$$

enum
$$Vav = X, Y, Z, W$$

inf $S_{i}(v) + V = X$

if $V = X + V = X$

else if $V = X + V = X +$

Theorem

Let S be a signature and It be a structure.

Consider a formula 4 in this signature then for any two assignements s, and s.t. SI and Sz are the source for thee vorsables of 4

IN = 4 [5, 3] iff UN = 4 [5]