

UBUNG - 13

Thursday, January 7, 2021

6:05 PM

51.

a) $\{x \neq b\} \Rightarrow \{b/x\}$

b) $\{a \neq x\} \Rightarrow \{a/x\}$

c) $\{a \neq b\} \Rightarrow$ clash error

d) $\{y \neq f(x)\} \Rightarrow \{f(x)/y\}$

e) $\{x \neq f(x)\} \Rightarrow$ occur error

f) $\{f(x) \neq f(y)\} \Rightarrow \{y/x\}$

substituted a/x into $f(x)$

g) $\{f(x) \neq g(y)\} \Rightarrow$ clash error

h) $\{h(x,y) \neq h(a,b)\} \Rightarrow \{a/x, b/y\}$

i) $\{x \neq f(z), y \neq f(w), x \neq y\} \Rightarrow \{f(z)/x, f(w)/y, a/z\}$

j) $\{h(x, f(y)) \neq h(z, f(g), w)\} \Rightarrow \{f(w)/x, f(w)/y, a/z\} = \text{negu}$

$\Rightarrow \{h(x, f(y))/z\}$

$\Rightarrow \{f(w)/x, f(y)/y\}$

$\Rightarrow \{h(f(w), f(y))/z, f(y)/x, f(y)/y\}$

52.

a) $\{g(v, f(v)) \neq w, p(w) \neq p(x), x \neq g(f(y), z)\}$

b) $\{g(v, v) \neq w, p(w) \neq p(x), v \neq f(y)\}$

$\Rightarrow \{g(v, v)/w\}$

$\Rightarrow \{f(y)/x\}$

$\Rightarrow \{p(g(v, v)) \neq p(f(y))\}$

$g(v, v) \neq f(y)$ Clash error

c) $\{g(v, f(y)) \neq w, p(w) \neq p(x), x \neq g(f(y), z)\}$

$\Rightarrow \{g(v, f(y))/w, g(f(y), z)/x\}$

$\Rightarrow \{p(g(v, f(y))) \neq p(g(f(y), z))\}$

$\{g(v, f(y)) \neq g(f(y), z)\}$

$\Rightarrow \{f(y)/z, f(y)/v\}$

negu = $\{g(f(y), f(y))/w, f(y)/z, f(y)/v, w/x\}$

62.

$$a) \{p(g(f(x), f(a))) \stackrel{?}{=} p(g(f(b), f(x)))\}$$

$$\Rightarrow \{g(f(x), f(a)) \stackrel{?}{=} g(f(b), f(x))\}$$

$$\Rightarrow \{f(x) \stackrel{?}{=} f(b), f(a) \stackrel{?}{=} f(x)\}$$

$$\rightarrow \begin{cases} b/x \\ a/b \end{cases} \Rightarrow \text{Error Error}$$

$$b) \{p(g(x, f(x))) \stackrel{?}{=} p(g(y, y))\}$$

$$\Rightarrow \{g(x, f(x)) \stackrel{?}{=} g(y, y)\}$$

$$\Rightarrow \begin{cases} y/x \\ x/y, f(x) \end{cases} \Rightarrow \{f(x) \stackrel{?}{=} x \text{ Occur Error}\}$$

$$c) \{t \stackrel{?}{=} b, x \stackrel{?}{=} f(t), v \stackrel{?}{=} f(x), f(v) = y, w \stackrel{?}{=} f(x), f(w) \stackrel{?}{=} z\}$$

$$\{b/t\}$$

$$\{f(b)/x\}$$

$$\{f(f(b))/v\}$$

$$\{f(f(f(b)))/y\}$$

$$\{f(f(b))/w\}$$

$$\{f(f(f(b)))/z\}$$

$$\Rightarrow \text{mgm} = \{f(f(f(b)))/y, y/z\}$$

RAZVAN-IOAN POSTESCU
TUDOR MIHAI VISAN
BOGDAN TODIRAS
FRANCISC TULICI
VALER SZABO

