

Prolog Homework 7.1

November 24, 2004

1. Compute $E\theta$, where

$$E = f(x, f(x, b, y), g(a, z))$$

and

$$\theta = \{x \mapsto y, y \mapsto g(a, z), z \mapsto x\}$$

2. Compute $\theta\sigma$, where

$$\theta = \{x \mapsto f(x), y \mapsto z, z \mapsto g(a, y, h(x))\}$$

and

$$\sigma = \{x \mapsto y, z \mapsto y, y \mapsto h(y), w \mapsto a\}$$

3. Compute $\theta\theta$, where

$$\theta = \{x \mapsto f(x), y \mapsto z, z \mapsto g(a, y, h(x))\}$$