a)

$$T_1 \stackrel{?}{=} T_2$$

$exp(list(double, int, float), \alpha) \stackrel{?}{=} exp(list(\beta, \gamma), list(int))$

① → - 0,5P.

$\{list(double, int, float) \stackrel{?}{=} list(\beta, \gamma), \alpha \stackrel{?}{=} list(int)\}$

(3) (2)

② → Fail. No unification possible

$(f(s_1 \dots s_n) \stackrel{?}{=} g(t_1 \dots t_m), n \neq m \Rightarrow fail)$ ✓

---

b)

$$T_3 \stackrel{?}{=} T_4$$

$median(\alpha, list(\alpha), max(\beta, int)) \stackrel{?}{=} median(int, list(int), max(float, \delta))$

①→

$\{\alpha \stackrel{?}{=} int, list(\alpha) \stackrel{?}{=} list(int), max(\beta, int) \stackrel{?}{=} max(float, \delta)\}$

①→ ①→

$\{\alpha \stackrel{?}{=} int, \alpha \stackrel{?}{=} int, \beta \stackrel{?}{=} float, int \stackrel{?}{=} \delta\}$

→ → → zu viele Regeln ausgelassen! -3P.

④→ $\{\alpha \stackrel{?}{=} int, \beta \stackrel{?}{=} float, \delta \stackrel{?}{=} int\}$

$\theta = \{\alpha \to int, \beta \to int, \delta \to int\}$

---

c)

$$T_5 \stackrel{?}{=} T_6$$

$func(\beta, \gamma, int) \stackrel{?}{=} func(\alpha, list(\gamma), int)$

① -0,5P. → $\{\beta \stackrel{?}{=} \alpha, \gamma \stackrel{?}{=} list(\gamma), int \stackrel{?}{=} int\}$

③→ $\{\beta \stackrel{?}{=} \alpha, \gamma \stackrel{?}{=} list(\gamma)\}$ ✓

⑥→ Fail. No unification possible $(\gamma \stackrel{?}{=} list(\gamma))$