Løsning 4.1

(a) ba^*

(b) $b^*(ba)^*b^*$

(c) $(a \vee b)^*ba$

(d) $(a \vee b)^*(baa * \vee b)$

(e) $(a \vee b)^*baa(a \vee b)^*$

(f) $a^*(b^*(a \vee aaaa^*)b^*)^*$

(g) $(a \vee b)^*a(a \vee b)$

(h) $(a \vee b)^*b(a \vee b)$

Løsning 4.2

(a) $(a + b)^*aba(a + b)^*$

(b) $(a + b)^*abb(a + b)^* + (a + b)^*aba(a + b)^*$

(c) $(a + b)^*aba(a + b)^* + (a + b)^*bab(a + b)^*$

(d) $((a + b)^*aba(a + b)^*bab(a + b)^*) + ((a + b)^*bab(a + b)^*aba(a + b)^*)$

(e) $((a + b)^*bb(a + b)^*aa(a + b)^*) + ((a + b)^*aa(a + b)^*bb(a + b)^*) +$
$((a + b)^*ba(a + b)^*ab(a + b)^*) + ((a + b)^*ab(a + b)^*ba(a + b)^*)$