

(a)

x	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11	h12	h13	h14	h15	h16
00	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
01	○	○	○	○	●	●	●	●	○	○	○	○	●	●	●	●
10	○	○	●	●	○	○	●	●	○	○	●	●	○	○	●	●
11	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●

(b)

$y = ((\text{int}('x', 8) \% 3) == 1)$

$y = (x.\text{count}("00") == 1 \ \&\& \ x.\text{count}("1") == 1)$

$y = ((x1 - x2 + x3) > 0)$