1)(h>=180) NXOR (hc == ‘b’) =

NXOR

1 1 = 0

0 0 = 0

1 0 = 1

0 1 = 1

!((h >= 180 && hc == 'b') || (!(h >= 180) && !(hc == 'b')))

2) bool isOk = h >= 180 & hc == 'b';

bool isOk = !(!(h >= 180) | !(hc == 'b'));

3) not(tall & brunette) = !tall | !brunette

4) h | h = h(if h is true the result will be true, if its false, it will be false

h | 0 = h (if h is false, it will be false, because false or true is true)

if h is false, the result will be false, because false or false = false)

h | 1 = true(since at least one condition is true)

h | not h => false | true or true | false either way the answer is true

5) h & h = if h = false it will be false, if it is true it wil be true

h & 0 = false, since one of the condition is false

h & 1 = true if h is true , false if h is false

h & not h => false | true or true | false either way the answer is false