

P1.

A) assign $F = (\sim A \mid B) \& (A \mid \sim B);$

B) assign $F = (\sim(A \& B \& C)) \mid (\sim(A \& B) \& (\sim C));$

P2. module P2(A, B, C, f)

input(A, B, C);

output(f);

and(D, $\sim A$, B, C);

and(E, $\sim A$, B, $\sim C$);

and(G, A, C);

or(f, D, E, G);

endmodule

P3.

Error 1: input a, b, c; output f;
 output f; instead of input a, b, c;

Error 2: if(c == 0) instead of if(c = 0)

Error 3: f = b; instead of f = b

Error 4: endmodule instead of end module