

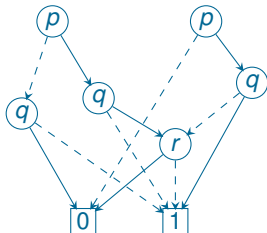
Exercise 6 (deadline: November 19th, 4pm)

Part of Exercise 10.1

Compute the OBDD for the formula $\neg(p_1 \wedge p_2) \rightarrow (p_1 \vee p_3)$ and the order $p_3 > p_2 > p_1$.

Exercise 10.3

Consider the following global dag D .



It has two different subdags d_1, d_2 rooted at p . Let d_1, d_2 represent formulas F_1, F_2 , respectively. Draw the global dag D after the OBDD for $F_1 \wedge F_2$ has been integrated into it.

Exercise 10.5

A propositional formula F of variables p_1, \dots, p_n is true in an interpretation I if and only if exactly one atom from p_1, \dots, p_n is true in I . Draw the OBDD for F and the order $p_1 > p_2 > \dots$