

# MACM 101 Chapter 1 Homework

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## Question 6

$u$  only if  $(b_{32}$  and  $g_1$  and  $r_1$  and  $h_{16})$  or  $(b_{64}$  and  $g_2$  and  $r_2$  and  $h_{32})$   
 $u \rightarrow ((b_{32} \wedge g_1 \wedge r_1 \wedge h_{16}) \vee (b_{64} \wedge g_2 \wedge r_2 \wedge h_{32}))$

## Question 8

(a)  $r \wedge \neg p$

(b)  $(r \wedge p) \rightarrow q$

(c)  $\neg r \wedge \neg q$

(d)  $(\neg p \wedge r) \rightarrow q$