Complete the following truth tables by finding the truth values of the Boolean expressions for all combinations of the Boolean inputs p, q, and r. F and T represent false and true, respectively.

p	q	(p||q)	!(p||q)
F	F	F	
F	T		
T	F		
T	T		

(Hint: There are 8 combinations of the Boolean inputs p, q, and r.)

p	q	r	(p&&q)	!r	(p && q) || !r
F	F	F	F	T	
F	F	T			
F	T	F			
F	T	T			
T	F	F			
T	F	T			
T	T	F	T		
T	T	T	T		

Complete the values for p, q, and r and then compute the columns from left to right to build up to the answer to *!(p && (q || !r))*

p	q	r	!r	(q||!r)	(p && (q || !r))	!(p && (q || !r))
F	F	F				
F	F	T				
F	T	F				
F	T	T				