$q \wedge$ and 88

$(p \cdot q)'$

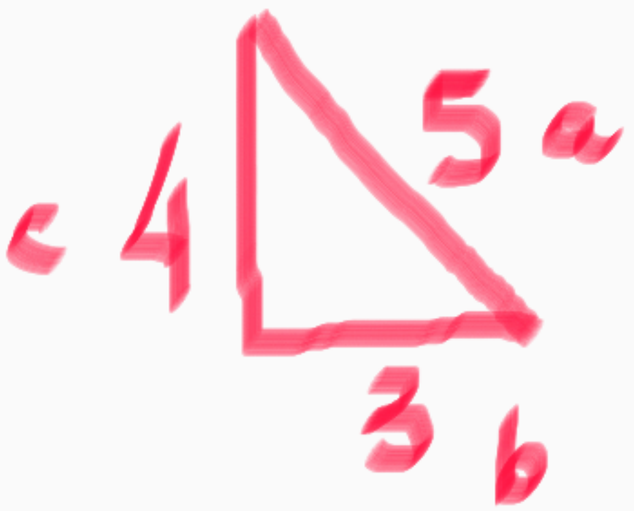
p	q	$p' \cdot q'$
0	0	1
0	1	0
1	0	0
1	1	0

$\Leftrightarrow$

$\vee$ OR ou 11

$(p + q)'$

p	q	$p + q$	$(p + q)'$
0	0	0	1
0	1	1	0
1	0	1	0
1	1	1	0



$$\begin{cases} a+b>c \\ a+c>b \\ b+c>a \end{cases} \qquad \begin{matrix} 8>4 \\ 6>3 \\ 7>5 \end{matrix} \qquad \begin{matrix} 1 \\ 1 \\ 1 \end{matrix}$$

$$\begin{cases} c<a+b \\ b<a+c \\ a<b+c \end{cases}$$

p	q	~q	p V ~q	~(p V ~q)
V	V	F	V + F = V	F
V	F	V	V + V = V	F
F	V	F	F + F = F	V
F	F	V	F + V = V	F

S

F F V F

2.4

(p+q)'

S

p	q	~q	p V ~q	~(p V ~q)
V	V	F	V + F = V	F
V	F	V	V + V = V	F
F	V	F	F + F = F	V
F	F	V	F + V = V	F

F F V F

$\neg(P \vee Q) \rightarrow Q$:

$(p+q)' \rightarrow q$

$2^2 = 4$

p	q	p+q	(p+q)'	(p+q)' → q	
0	0	0	1	1 → 0 =	0 F
0	1	1	0	0 → 1 =	1 V
1	0	1	0	0 → 0 =	1 V
1	1	1	0	0 → 1 =	1 V

$(P \rightarrow \neg(Q \vee R))$

$(\neg P \rightarrow (Q \vee R))$

p	q	r	q + r	(q + r)'	p → (q + r)'
0	0	0	0	1	0 → 1 = 1
0	0	1	1	0	0 → 0 = 1
0	1	0	1	0	0 → 0 = 1
0	1	1	1	0	0 → 0 = 1
1	0	0	0	1	1 → 1 = 1
1	0	1	1	0	1 → 0 = 0
1	1	0	1	0	1 → 0 = 0
1	1	1	1	0	1 → 0 = 0

p = 1 q = 0 r = 1

(0 → (0 + 1)

(0 → 1) = 1

$(P \vee (\neg Q \vee \neg R))$

(1 + (1 + 0))

(1 + (1))

1