

Prova - Int. à C.C

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- ① $p \rightarrow$ todo sal de sódio torna amarela a chama
 $q \rightarrow$ material torna amarela a chama
 $r \rightarrow$ material é sal de sódio

$$p \wedge q \rightarrow r \leftrightarrow \neg p \vee q$$

p	q	r	$p \wedge q$ [Ⓐ]	$A \rightarrow B$ [Ⓑ]	$\neg p$	$\neg p \vee q$ [Ⓒ]	$B \leftrightarrow C$
1	1	1	1	0	0	1	1
1	1	0	1	1	0	1	1
1	0	1	0	1	0	0	1
1	0	0	0	0	0	0	0
0	1	1	0	1	1	1	1
0	1	0	0	0	1	1	1
0	0	1	0	1	1	1	1
0	0	0	0	0	1	1	1

- ② $p \rightarrow$ crustão / $q \rightarrow$ ateu / $r \rightarrow$ filósofo

$$\neg p \rightarrow q$$

$$r \rightarrow q$$

$$\therefore r \rightarrow \neg p$$

p	q	r	$\neg p$	$\neg p \rightarrow q$	$r \rightarrow q$	$r \rightarrow \neg p$
1	0	0	0	1	1	1
1	1	0	0	1	1	1
1	1	1	0	1	1	0
0	1	1	1	1	1	1
0	0	1	1	0	0	1
0	0	0	1	0	1	1
1	0	1	0	1	0	0
0	1	0	1	1	1	1

③ a) $85 =$

$$\begin{array}{r} 85 \text{ } \underline{16} \\ -80 \text{ } 5 \\ \hline 5 \end{array} \quad \left. \vphantom{\begin{array}{r} 85 \text{ } \underline{16} \\ -80 \text{ } 5 \\ \hline 5 \end{array}} \right\} 55 (16)$$

b) $2482 =$

$$\begin{array}{r} 2482 \text{ } \underline{16} \\ -2480 \text{ } \underline{155} \text{ } \underline{16} \\ \hline 2 \text{ } -144 \text{ } 9 \\ \hline 11 = 3 \end{array} \quad \left. \vphantom{\begin{array}{r} 2482 \text{ } \underline{16} \\ -2480 \text{ } \underline{155} \text{ } \underline{16} \\ \hline 2 \text{ } -144 \text{ } 9 \\ \hline 11 = 3 \end{array}} \right\} 932 (16)$$

c) $1542 =$

$$\begin{array}{r} 1542 \text{ } \underline{16} \\ -1536 \text{ } \underline{96} \text{ } \underline{16} \\ \hline 6 \text{ } -96 \text{ } 6 \\ \hline 0 \end{array} \quad \left. \vphantom{\begin{array}{r} 1542 \text{ } \underline{16} \\ -1536 \text{ } \underline{96} \text{ } \underline{16} \\ \hline 6 \text{ } -96 \text{ } 6 \\ \hline 0 \end{array}} \right\} 606 (16)$$