

5: a) $\forall p \text{ PESSOA}(p) \rightarrow \text{GOSTA}(p, \text{MARACUJÁ})$

b) $\forall i \text{ IRRACIONAL}(i) \rightarrow \text{GOSTA}(i, \text{VIOLÊNCIA})$

6: $H = ((\exists x) P(x) \vee (\exists x) Q(x)) \rightarrow (\exists x) (P(x) \vee Q(x))$

1.	$\neg((\exists x) P(x) \vee (\exists x) Q(x)) \rightarrow (\exists x) (P(x) \vee Q(x))$	0, $\neg H$
2.	$((\exists x) P(x) \vee (\exists x) Q(x))$	1, R_2
3.	$\neg(\exists x) (P(x) \vee Q(x))$	1, R_3
4.	$(\exists x) P(x) \quad (\exists x) Q(x)$	2, R_2
5.	$\rightarrow P(a) \quad Q(a)$	4, R_2
6.	$(\forall x) \neg (P(x) \vee Q(x)) \quad (\forall x) \neg (P(x) \vee Q(x))$	3, R_1
7.	$\neg(P(a) \vee Q(a))$	6, R_3
8.	$\neg P(a)$	7, R_7
9.	$\neg Q(a)$	7, R_7
FECHADO		FECHADO

H É UMA TAUTOLOGIA!