A more complicated truth table

Consider the expression $[(A \rightarrow B) \land \neg B] \rightarrow A$. Is this always true? Sometimes true and sometimes false? Always false? Let's use a truth table to answer this.

A	В	$(A \rightarrow B) \land \neg B$	$[(A \to B) \land \neg B] \to A$
Τ	Т	F	Т
Т	F	F	Т
F	Т	F	Т
F	F	Т	F

So the answer is that it is sometimes true and sometimes false. Note that we also showed $[(A \rightarrow B) \land \neg B] \rightarrow A \equiv A \lor B$.