Evaluate the following Boolean formulas. Assume that the variables have the following values:

$$A = \text{false},\ B = \text{true},\ C = \text{true},\ D = \text{false},\ E = \text{true},\ F = \text{false}$$

Let $\mathbb{T}$ denote true and $\mathbb{F}$ denote false. Then,

$$\begin{aligned}
(A \wedge B) \vee C &\equiv (\mathbb{F} \wedge \mathbb{T}) \vee \mathbb{T} \\
&\equiv \mathbb{F} \vee \mathbb{T} \\
&\equiv \mathbb{T}. \\
A \wedge (B \vee C) &\equiv \mathbb{F} \wedge (\mathbb{T} \vee \mathbb{T}) \\
&\equiv \mathbb{F} \wedge \mathbb{T} \\
&\equiv \mathbb{F}. \\
D \to F &\equiv \mathbb{F} \to \mathbb{F} \\
&\equiv \mathbb{T}.
\end{aligned}$$

For an arbitrary value G,

G	$\neg G$	$\neg G \oplus G$	$(\neg G) \to G$	$G \to G$
$\mathbb{T}$	$\mathbb{F}$	$\mathbb{T}$	$\mathbb{T}$	$\mathbb{T}$
$\mathbb{F}$	$\mathbb{T}$	$\mathbb{T}$	$\mathbb{F}$	$\mathbb{T}$