

$$c(N_{W_2|W}) = \frac{c(T(W)|_{W_2})}{c(T(W_2))},$$

and performing the division

$$\begin{array}{r}
 1 + 3l + 3l^2 \quad \overline{) \quad \begin{array}{l} 1 + 9l + 30l^2 \\ 1 + 12l + 60l^2 \\ 1 + 3l + 3l^2 \\ \hline 9l + 57l^2 \\ 9l + 27l^2 \\ \hline 30l^2 \\ 30l^2 \\ \hline 0 \end{array} }
 \end{array}$$

we find that

$$c(N_{W_2|W}) = 1 + 9l + 30l^2.$$

For $T(W)|_{W_2} = T(W_2) \oplus N_{W_2|W}$, see P71
and for the product formula of Chern classes
see P408.

□

Thus if $\zeta \in H^2(E, \mathbb{Z})$ denotes the Chern class
of the tautological bundle on $E \cong \mathbb{P}(N_{W_2|W})$,
our general relation (p. 606) reads

$$(*) \quad \zeta^3 - 9\tilde{l} \cdot \zeta^2 + 30\tilde{l}^2 \cdot \zeta = 0.$$