Elliptic Curves Example Sheet 1
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EXERCISE 1.

EXERCISE 2.

EXERCISE 3. Find a translation-invariant differential ω on the multiplicative group $\mathbb{G}_m$. Show that if $[n]: \mathbb{G}_m \to \mathbb{G}_m$ is the endomorphism $x \mapsto x^n$ then $[n]^* \omega = n\omega$.

Proof: $\qquad \qquad \square$