



$$\begin{aligned}
 V_{in}(t) &= V_0 \cos(\omega t) & \text{— (red solid line)} \\
 V_{out}(t) & & \text{... (blue dotted line)} \\
 V_{2nd}(t) &= \cos(2\omega t) & \text{... (magenta dotted line)}
 \end{aligned}$$