Construct an entire function with a zero of order 2 at the origin and a simple zero at all points of the sequence $a_{n}=|n|^{2 / 3}$, for $n \in \mathbb{Z} \backslash\{0\}$. It must not vanish at any other point.

Do the same for $a_{n}=|n|^{2 / 5}$ and $a_{n}=|n|^{5 / 4}$.

