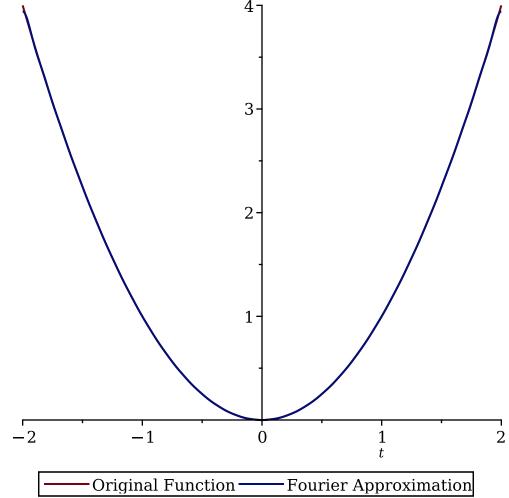
restart: with(plots):

 $f := t \rightarrow t^2$: T := 4:

 $a_0 := \frac{2}{T} \cdot int(f(t), t = -\frac{T}{2} ... \frac{T}{2})$:

> $fourier := t \rightarrow 1/2*a_0 + add(a_n(n)*\cos(2*Pi*n*t/T), n = 1...27)$: Warning, (in fourier) `n` is implicitly declared local

> plot([f(t), fourier(t)], t = -2...2, legend = ["Original Function","Fourier Approximation"]);



In de grenzen horen we het fenomeen van gibbs mee te maken (divergentie)