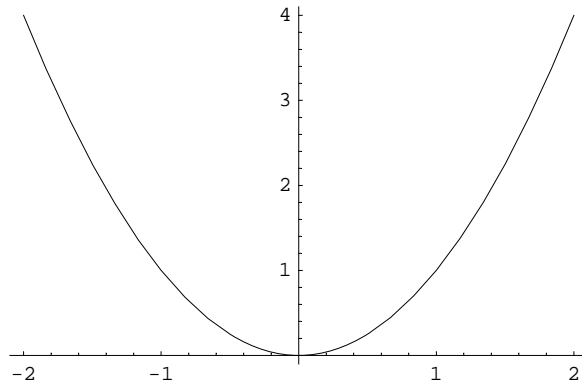


```
f[x_] := x2;
```

```
Plot[f[x], {x, -2, 2}]
```

$$a_0 = \frac{1}{2} \int_{-1}^1 f[x] dx$$

$$a_n = \int_{-1}^1 f[x] * \text{Cos}[n * \pi * x] dx$$



- Graphics -

$$\frac{1}{3}$$

$$\frac{4 n \pi \text{Cos}[n \pi] + 2 (-2 + n^2 \pi^2) \text{Sin}[n \pi]}{n^3 \pi^3}$$