

$$\int_0^1 \frac{1}{2+x^4} dx \approx .4603941667$$

N	Simpson	$\frac{1}{2} \sum \frac{(-1)^n}{2^n(4n+1)}$
4	0.4604953736	0.4609194319
6	0.4604095880	0.4604878843
8	0.4603988211	0.4604123716
10	0.4603960369	0.4603978873