

1) $f: [-4, +\infty[\rightarrow [0, +\infty[: x \mapsto \sqrt{(x+4)^2}$

Taylor: (Maple) (up until $n=3$)

$$0 + 3x + \frac{3}{16} x^2 + O(x^3)$$

So $x=1$ (for $5^{3/2}$) $\Rightarrow 11,1875$, error in f and in $O(x^3)$
 $\Rightarrow 0,0098$

something for $x=2$!