

Wolfram Alpha is a powerful calculation tool made available, for free, to everyone with access to the web. It is also available as a mobile app (for a small fee). Everyone can access it via a browser here: <http://www.wolframalpha.com/>

Just to give you some idea of its power go to the above website and type in (or cut and paste) the following commands. These examples are intended to get you started ... play around as much as you like!!!

1. graph $y=x^3-x^4$
2. graph $y=x^3-x^4$ from -0.2 to 0.2
3. integrate x squared
4. integrate x squared from zero to one
5. differentiate $1/(x^2+1)$
6. first derivative of $1/(x^2+1)$
7. second derivative of $1/(x^2+1)$
8. third derivative of $1/(x^2+1)$
9. intersection of $y=1/(x^2+1)$ and $y=x^2$
10. solve $x^4+x^2-1=0$
11. solve diophantine $2x+3y=18$
12. solve diophantine $2x+4y=17$
13. quadratic residues mod 17
14. first 1000 digits of pi
15. is 13131313 prime?
16. how many permutations of abcde?
17. how many monsters in loch ness?