

## Back-pocket graphs

These are all good graphs to be familiar with. If you don't know them yet, think about their basic properties: Where is  $f(x)$  defined? ...large? ...small? ...zero? Does it repeat? ...blow up? Does it have any symmetry? etc...

1. Graph  $f(x) = |x|$ .
2. Graph  $f(x) = \lfloor x \rfloor$ .
3. Graph  $f(x) = 2$ .
4. Graph  $f(x) = x$ .
5. Graph  $f(x) = x^2$ .
6. Graph  $f(x) = x^3$ .
7. Graph  $f(x) = x^4$ .
8. Graph  $f(x) = x^5$ .
9. Graph  $f(x) = x^6$ .
10. Graph  $f(x) = x^{100}$ .
11. Graph  $f(x) = x^{-1}$ .
12. Graph  $f(x) = x^{-2}$ .
13. Graph  $f(x) = x^{-3}$ .
14. Graph  $f(x) = x^{-4}$ .
15. Graph  $f(x) = x^{-100}$ .
16. Graph  $f(x) = e^x$ .
17. Graph  $f(x) = \sin x$ .
18. Graph  $f(x) = \cos x$ .
19. Graph  $f(x) = \tan x$ .
20. Graph  $f(x) = \cot x$ .
21. Graph  $f(x) = \sec x$ .
22. Graph  $f(x) = \csc x$ .
23. Graph  $f(x) = \sqrt{x}$ .
24. Graph  $f(x) = x^{1/3}$ .
25. Graph  $f(x) = x^{1/4}$ .
26. Graph  $f(x) = x^{1/5}$ .
27. Graph  $f(x) = x^{1/6}$ .
28. Graph  $f(x) = \frac{1}{\sqrt{x}}$ .
29. Graph  $f(x) = x^{-1/3}$ .
30. Graph  $f(x) = x^{-1/4}$ .
31. Graph  $f(x) = \ln x$ .
32. Graph  $f(x) = \sin^{-1} x$ .
33. Graph  $f(x) = \cos^{-1} x$ .
34. Graph  $f(x) = \tan^{-1} x$ .
35. Graph  $f(x) = \cot^{-1} x$ .
36. Graph  $f(x) = \sec^{-1} x$ .
37. Graph  $f(x) = \csc^{-1} x$ .