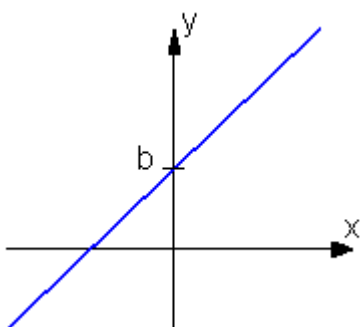


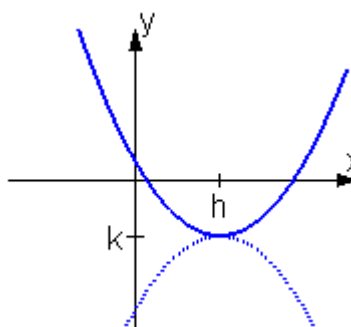
## Graphs of Basic Functions

### Linear Function



$$f(x) = mx + b$$

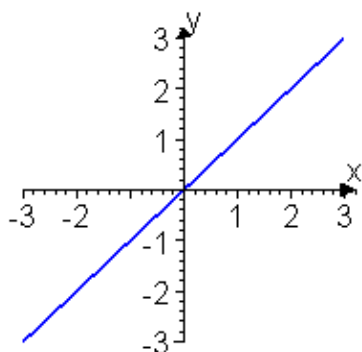
### Quadratic Function



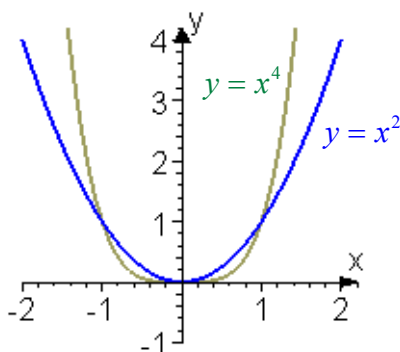
$$f(x) = ax^2 + bx + c$$

$$\text{Standard form: } f(x) = a(x-h)^2 + k$$

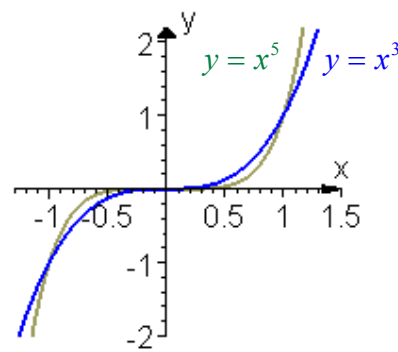
### Power Functions



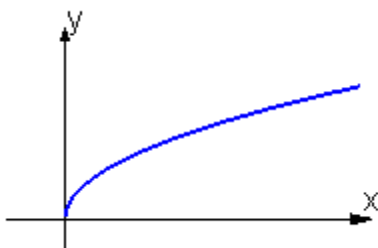
$$f(x) = x$$



$$f(x) = x^n \quad n \text{ is even}$$



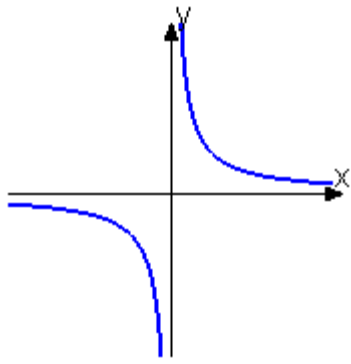
$$f(x) = x^n \quad n \text{ is odd, } n > 1$$



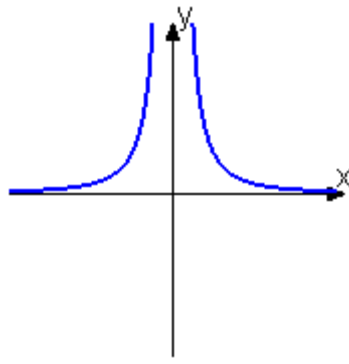
$$f(x) = \sqrt{x}$$



$$f(x) = \sqrt[3]{x}$$

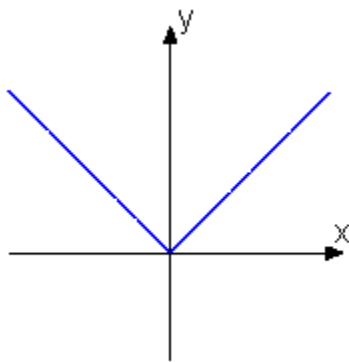


$$f(x) = \frac{1}{x}$$



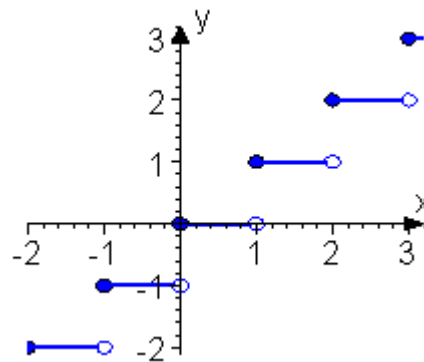
$$f(x) = \frac{1}{x^2}$$

### Absolute Value Function



$$f(x) = |x|$$

### Greatest Integer Function



$$f(x) = \llbracket x \rrbracket$$