

LECTURE NOTES: §1.2

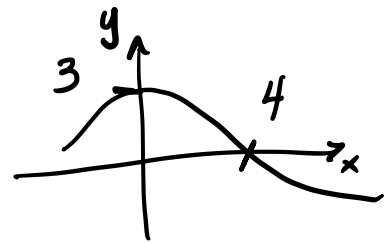
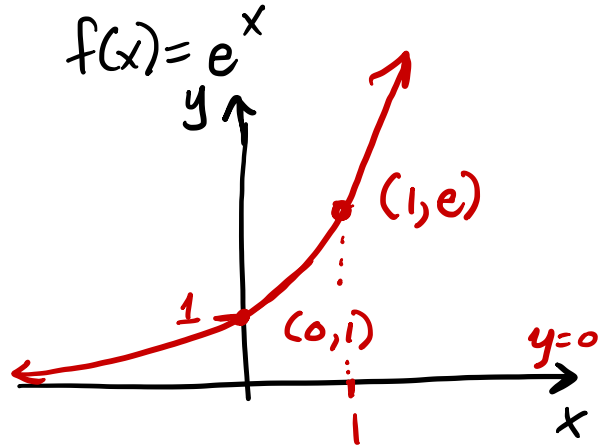
- graphing: what is expected.
- terminology.

Q| What is a linear function?

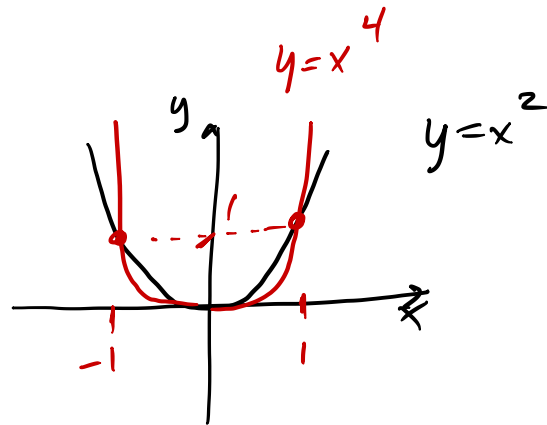
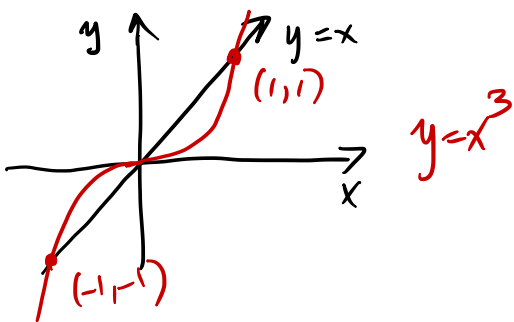
Q| What is a polynomial?

Q| To "properly" graph $f(x)$, what should I include?

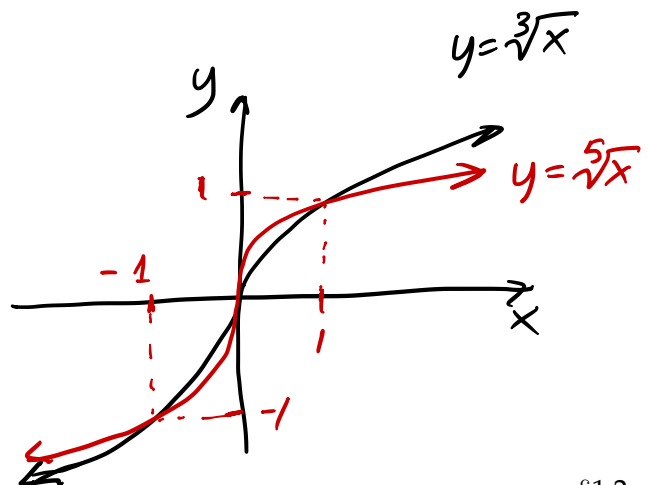
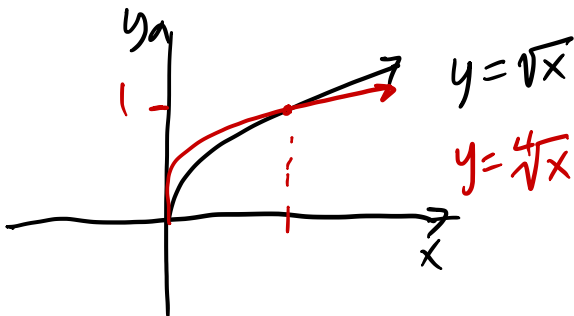
- x- and y- intercepts
- basic shape or "curviness"
- at least two labelled points
- asymptotes



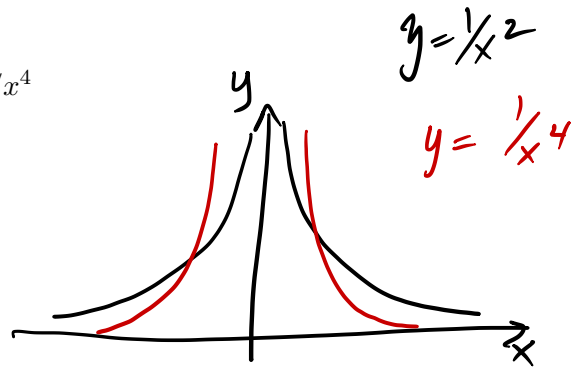
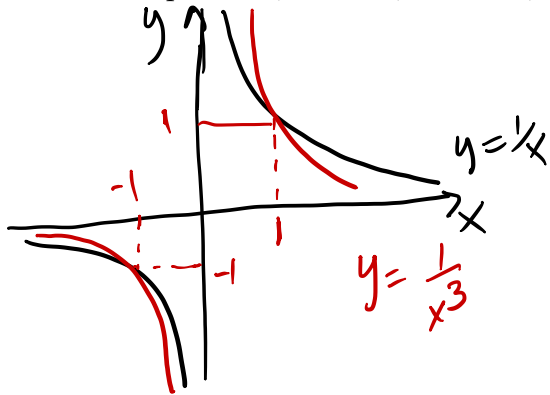
1. Graph: $y = x$, $y = x^2$, $y = x^3$, $y = x^4$



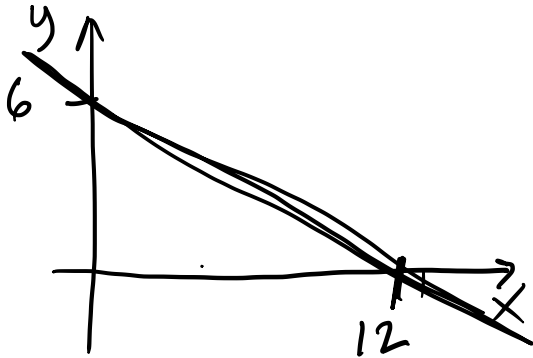
2. Graph: $y = \sqrt{x}$, $y = \sqrt[3]{x}$, $y = \sqrt[4]{x}$, $y = \sqrt[5]{x}$



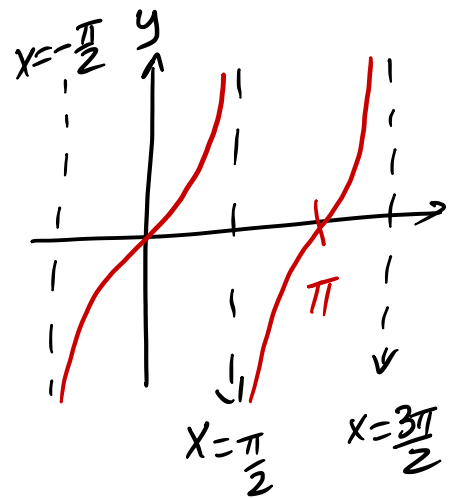
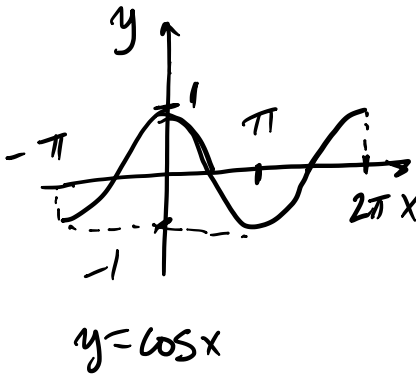
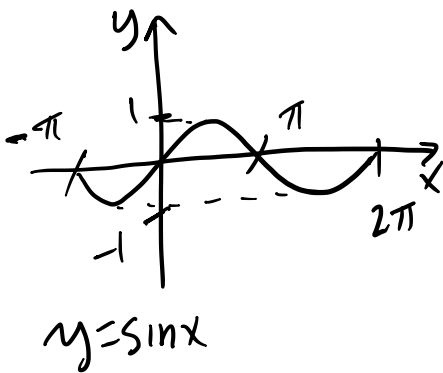
3. Graph $y = 1/x$, $y = 1/x^2$, $y = 1/x^3$, $y = 1/x^4$



4. Graph $y = 6 - \frac{1}{2}x$



5. Graph $y = \sin x$, $y = \cos x$, $y = \tan x$.



6. Graph $y = |x|$, $y = |\sin x|$

