

Section 4.5 ***Summary of Curve Sketching***

Given a function $y = f(x)$

- A. Domain
- B. Intercepts.
- C. Symmetry
- D. Asymptotes
- E. Intervals of Increase or Decrease
- F. Local Maximum and Minimum Values
- G. Concavity and Points of Inflection
- H. Sketch the Curve

Ex: Use the guidelines to sketch the following curves

a) $y = x^{2/3}(3 - x)$

b) $y = \frac{1}{1+e^{-x}}$