

Before Class

- Watch a discussion of graphs of various common functions. Pay particular attention to the continuity of these graphs.  
<http://www.youtube.com/watch?v=ksFffXgWqxo>.
- What does it mean for a function to be continuous?
- Give a generic sketch of each of the following kinds of functions and tell the domain over which it is continuous.
  - Identity function  $f(x) = x$
  - Squaring function  $f(x) = x^2$
  - Cubing function  $f(x) = x^3$
  - Square root function  $f(x) = \sqrt{x}$

During Class

- p. 70 # 23, 25, 45, 49, 55, 81, 83, 89