**8.4 Derivatives of Logarithmic Functions**

  

**Proof: Proof:**

  

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**Find the derivative of each of the following:**

  

  

  

**Sketch the graph of** 

 Domain: Intercepts: Symmetry:

 Asymptotes: Intervals of Increase or Decrease:

 Maximum or Minimum:

 Concavity:

 Points of Inflection: