

## Math 110 (Section 002) Learning Objectives

---

*Students should be able to do the following things by the end of each respective unit. Additions may be made as the term progresses.*

### **Concavity**

1. Define the terms 'concave up', 'concave down' and 'inflection point'.
2. Explain the connection between the concavity of a function and the sign of its second derivative.
3. Give examples of functions demonstrating the distinction between the qualities concave up/concave/down and increasing/decreasing.
4. Given a function, identify its inflection points and intervals of concavity.