

Honors Calculus

Implicit Differentiation

The list below contains the specific *learning targets* for the unit on implicit differentiation. Before the unit test, you should be able to place a check next to each statement as being true.

- I can find the derivative of a function defined implicitly.
- I can find related rates.
- I can use related rates to solve real-life problems.

Textbook Assignments

The exercises below are from *Calculus of a Single Variable, 7th edition*, by Larson, Hostetler, and Edwards. These specific problems are the bare minimum that should be completed after each lesson, but you are encouraged to attempt more if needed.

- 2.5 Implicit Differentiation **pg 142: 1-15 (odd)**
- 2.5 Implicit Differentiation **pg 142: 23, 27, 29- 32, 43, 48**
- 2.6 Related Rates **pg 149: 1-8 (a part only)**
- 2.6 Related Rates **pg 149: 13-23 (odd)**
- 2.6 Related Rates **pg 149: 25, 27, 29, 31, 35, 39, 41, 43, 45, 46**