Unit 2 - Functions and Rate of Change

Topics for the TEST !

1) Basic Functions ($y = x^2, y = x^3, y = x^4, y = |x|, y = \sqrt{x}$)
2) Transformations, description of transformations in words and Mapping Notation
3) Graphing functions
4) Function Notation
5) Inverses of Functions (inverse points, inverse of equations, inverse of graphs)
6) Piecewise Functions
7) Average Rate of Change (slope of secant line)
8) Instantaneous Rate of Change (slope of tangent line)
9) Increasing/Decreasing Functions vs Increasing/Decreasing Rate of Change
10) Concavity (concave up vs concave down)
11) Identifying Max/Min points using instantaneous rate of change (looking for slope of tangent line = 0)

Unit 2 - Functions and Rate of Change

Topics for the TEST !

1) Basic Functions ($y = x^2, y = x^3, y = x^4, y = |x|, y = \sqrt{x}$)
2) Transformations, description of transformations in words and Mapping Notation
3) Graphing functions
4) Function Notation
5) Inverses of Functions (inverse points, inverse of equations, inverse of graphs)
6) Piecewise Functions
7) Average Rate of Change (slope of secant line)
8) Instantaneous Rate of Change (slope of tangent line)
9) Increasing/Decreasing Functions vs Increasing/Decreasing Rate of Change
10) Concavity (concave up vs concave down)
11) Identifying Max/Min points using instantaneous rate of change (looking for slope of tangent line = 0)