

AP CALCULUS

CHAPTER # 2: LIMITS AND CONTINUITY

ASSIGNMENTS:

1. **Read-(2.1)A** p.62: 1-6, 31-36, 45, 48
2. **2.1B:** (7-28)x3 -(X 25), 24, 27, 29, 43, 49,
3. **Read-(2.2)A** p.71: (1-27) odd
4. **2.2B:** (29-32), 39, 42, 48, 49, (57-59)
5. **Read-(2.3)A** p.80: (11-17), 20, 22
6. **WS #2.3B:** 4,6,7,18,28,29,31,33,35 and
WS #2.3C: 2,3,5,6,8,9,11

Rates of change & limits

Limits involving infinity

vertical/horizontal asymptotes

Continuity

Intermediate Value Theorem

QUIZ 2.1-2.3

7. **Read-(2.4)A WS #2.4A:** squirrels, p.87: 1-7 odd
8. **2.4B:** p.87: 9,11, 21, 25-27, 29, 32
9. Review **WS#2R**
10. Test Review: **WS #TR**
11. Free Response Multiple Choice practice

Rates of change & tangent lines

TEST-CHAPTER #2

OUTCOMES

0. **VOCABULARY:** average speed, average rate of change, instantaneous speed, limit, left/right hand limits, Sandwich Theorem, horizontal asymptote, vertical asymptote, end behavior model, continuity at a point, discontinuous, removable discontinuity, oscillating discontinuity, jump discontinuity, infinite discontinuity, slope of a tangent, slope of a curve at a point, normal to a curve, instantaneous rate of change, Intermediate Value Theorem, numerical, graphical, analytical
1. **FIND LIMITS OF FUNCTIONS AS ($x \rightarrow c$ or $x \rightarrow \infty$) GRAPHICALLY**
2. **FIND LIMITS OF FUNCTIONS AS ($x \rightarrow c$ or $x \rightarrow \infty$) ALGEBRAICALLY**
3. **DETERMINE CONTINUITY**
4. **FIND VERTICAL & HORIZONTAL ASYMPTOTES/END BEHAVIOR**
5. **SLOPE OF A TANGENT TO A CURVE**

1978-3

1982-2

(18-48)x3 means every third one 18,21,24..

(18-48)X20 means 18-48, but skip number 20

(3-15)EOO means every other odd