

**A. Limits**

Read page 345. Plot the points from the tables as accurately as possible. See how the limit from both sides approaches 4. If a function approaches a limit, it is said to **converge**. Continue to read the bottom of the page and the top of 346. Do Example 1 a, b, c.

Do Exercise 14A #1-4.

Read page 344 Opening Problem and Historical Note.

Also read page 347 TOK...discuss?

**B. Limits at Infinity**

Read page 347 and top of 348 (skip Investigation 1). Read section on Asymptotes on page 348.

Go through Examples 2 and 3 on page 349. Do Exercise 14B #1-3.

**C. Rates of Change**

Read page 350. \*Important: The instantaneous rate of change is given by the gradient of the tangent to the graph at that point.

Skip Investigation 2 for now. Come back to it later if you have time.

Read page 352 and do Investigation 3 with a partner. Read page 353. Do Exercise 14C #2.

**D. The Derivative Function**

Read page 353-354, including Example 4. Do Exercise 14D #1-3. \*Do Investigation 4.

**E. Differentiation from First Principles**

Read page 355-357, including Examples 5 and 6. Do Exercise 14E #1-6.

**Review set 14A (no calculator), 14B (calculator), 14C**

**Quiz on Chapter 14 – Thursday, September 17<sup>th</sup>.**