MTH 111 Course Notebook Desmos Activities

CHAPTER 1

Activity:

- 1.4 Basic Polynomial Functions: Sorting their Graphs
  https://teacher.desmos.com/activitybuilder/custom/5b0b283b92d0f7682fc959c1

Course Notebook links:

- 1.5 Exponential parent functions
  https://www.desmos.com/calculator/vwzxrln9v0

- 1.5 Logarithmic parent functions
  https://www.desmos.com/calculator/d2ckalocvu

- 1.6 H.A. of rational parent functions
  https://www.desmos.com/calculator/wkx6dbij7g

- 1.6 V.A. of rational parent functions
  https://www.desmos.com/calculator/oa6sqychy1

CHAPTER 2

Activity:

- 2.3 Sorting Graphs of Polynomials
  https://teacher.desmos.com/activitybuilder/custom/5b14262ee66b1e0a77a350f4

CHAPTER 3

Activity:

- 3.1 Transformations of Functions:
  https://teacher.desmos.com/activitybuilder/custom/5b536d7e283dc116c5def12a

CHAPTER 4

Course Notebook link:

- 4.3 Leading Term and End Behavior of Polynomial Functions
  https://www.desmos.com/calculator/jzb4eycolq

- Wrap-up: Gender Wage Gap models
  https://www.desmos.com/calculator/ohzgha9414

CHAPTER 5

Instructor demonstration:

- 5.1: Graph of ball thrown straight up (standard, factored and vertex form of a quadratic)
  https://www.desmos.com/calculator/aovdn90adv

Instructor demonstration:

- 5.1: Vertex Form
  https://www.desmos.com/calculator/naevfljlym

Course Notebook link:

- 5.2: Multiplicities of Zeros
  https://www.desmos.com/calculator/9ytpnfyg9f

Activity:

- 5.3A:Rational Functions: Zeros, Vertical Asymptotes and Domain
  https://teacher.desmos.com/activitybuilder/custom/5b57923cb0e57c19f892ba58

Course Notebook link:

- 5.3B: End Behavior of a Rational Function
  https://www.desmos.com/calculator/m3nb3jh4l2

CHAPTER 6

Instructor demonstration:

- 6.2: Domain of a composition (Laverna and Genty problem)
  https://www.desmos.com/calculator/kxotgxvtuw

CHAPTER 7

Course Notebook link:

- 7.3: Extraneous solutions of a logarithmic equation
  https://www.desmos.com/calculator/aqete33dmc