# MATH 1022     REVIEW PROBLEMS FOR TEST 2     Fall 2023

Text: **James Stewart**, _Precalculus Mathematics for Calculus_, 7th Edition, Cengage learning.

Below is a list of review problems to help you prepare for the exam on Wednesday, November 15. In addition to these you should be looking over class notes and in class quizzes.

Students are responsible for the graphs and transformations of $y = \ln x$ and $y = e^x$, graphing sine and cosine with different amplitudes and periods, should be able to draw angles in standard position, and should know the trigonometric function values for all common angles.

**4.1:** 25, 26, 33, 37

**4.2:** 7, 13, 14, 15

**4.3:** 25, 27, 29, 31, 32, 33, 37, 57, 58, 64, 65, 69, 70, 73, 75

**Additional Instructions for 4.1-4.3**: Label asymptotes with their equations and $x$ and $y$ intercepts with their coordinates for all graphing problems

**4.4:** 17, 18, 25, 29, 30, 31, 33, 35, 37, 38, 39, 40, 47, 51, 53, 54, 57

**4.5:** 3, 6, 9, 13a, 21a, 29a, 37a, 39, 40, 49, 52, 53, 56, 66, 67, 68

**Chapter 4 Review:** 47, 49, 55, 66, 70

**5.3:** 9, 15, 21, 22, 25, 31, 32, 47, 48

**Additional Instructions**: For all graphing problems, sketch 2 periods centered at the origin.

**6.1:** 5, 9, 17, 19, 37, 38

**6.2:** 7, 9, 21, 23, 27, 37, 42, 47

**6.3:** 1, 2, 25-36 (draw all angles in standard position before finding the trig value), For the following, draw the angle in standard position, and find $\sin(-\theta)$, $\cos(-\theta)$, $\sin(\theta + 2\pi)$, $\cos(\theta + 2\pi)$, $\sin(\pi/2 - \theta)$ and $\cos(\pi/2 - \theta)$: 47, 49, 53

**Chapter 6 Review:** 45, 57, 58

**7.1:** 5, 12, 13, 23, 27, 33, 37, 39, 63, 71, 73

*Answers to odd problems are in the back of the text. Answers to even problems will be made available by your instructor.

**PASS Sessions before the exam:**

**Friday, November 10,    2:00pm-2:50pm    Charles 201**

**Monday, November 13,    5:00pm-5:50pm    https://temple.zoom.us/j/98734914176**

**Math 1022 MCC Review Session:**

**Tuesday November 14,    6:30pm-8:00pm    SERC 00116**

**SSC Study Studio:**

**Tuesday, November 14,    5:00pm-6:30pm    Charles 340**