**Math 106 Fall 2022 Topics for Exam 2 and Practice Exercises**

*Word problems:*

* Percent change word problem (change in height or other datum)
* Linear change word problem (cost and sale price, for example)

*Everything else:*

* Find missing information in percent problems
* Absolute value – definition
* Absolute value equation and inequality – solve, express in all dimensions
* Absolute value equation and inequality – graph in two dimensions
* Linear forms Ax + By + C = 0, y = mx + b, (y - y1) = m(x - x1); converting between forms
* Identify A, B, C
* Find x- and y-intercepts
* Graph lines
* Find equation of line parallel and line perpendicular to a given line through a pt not on the line
* Graph linear inequalities and check a point in the shaded region