3.1 Graphing Systems of Linear Inequalities

To graph a linear inequality:

[Y =] and enter the equation of the corresponding line as usual.
Use the left arrow key to move to the left of the equal sign and press enter until you see ◥ or ◣, as appropriate for your specific inequality.
[ZOOM] and choose 6: ZStandard or choose your window manually by pressing [WINDOW]

To graph a system of linear inequalities:

[Y =] and enter the equations of the corresponding lines as Y1 and Y2.
Use the left arrow key to move to the left of the equal signs and press enter until you see the correct shading.

For example:
◣ Y1 = 8 – X
◥ Y2 = 3X

[ZOOM] and choose 6: ZStandard or choose your window manually by pressing [WINDOW]

To identify corner points:

Use the intersect feature:

[2nd] [TRACE] to access the CALC menu and choose 5: intersect.

Use rref where the system of equations consists of a pair of boundary lines:

[2nd] [x^{-1}] and right arrow to MATH.
Choose your operation,
B: rref(usage: rref([A])
Once you have made your selection, that operation will appear on your home screen.
Enter the appropriate matrix: [2nd] [x^{-1}] and choose 1:[A]
Close the parentheses and [ENTER].