1. Go to Desmos.com
2. Draw an oblique line of your choice by typing a linear equation in the box on the left.
3. Change the $=$ sign to each of $<,>,\leq ,\geq $, taking note of what happens with each change.
4. What is changing? Why?
5. Why is there a shaded region on the graph?
6. Why do some of the graphs have a solid line and others have a dashed line?
7. Would the following graphs be shaded above or below the line? Check if you are correct on Desmos.

$$y<3x+2 y<-2x-5 y>\frac{2}{3}x-7 y\geq -\frac{1}{2}+4 2y-3x\leq 7$$