Creating an equation given a line 11.15.16

Warm up: Create the equation of a line given the two points

Go over hw.

No that we know that we can create the equation of a line given two points we can create the equation of any line if look at it. All we have to do is pick two points in which the line goes through and then use those two points to create an equation.

We can do the same thing with inequalities, we just need to make sure we have the proper sign. Start off by making the equation using an equals sign. Then, use the line to decide whether it is equal to or not equal to. Then pick a sign and a point and plug in.
*If the point you pick is in the shaded region and the equation is true leave the sign, if it is false flip the sign.
*If the point you pick is outside the shaded region and the equation is false leave the sign, if it is true change the sign.

Let try a couple. Use desmos.. Hide equations then have students do 4 and then check.

HW:
Graphing wkst.