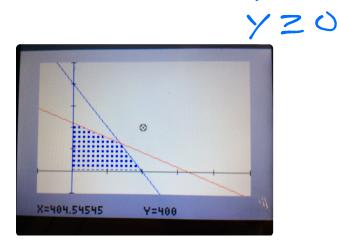
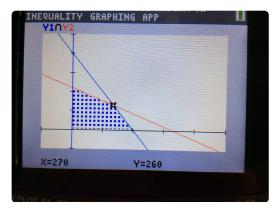
## LINEAR PROGRAMMING HW

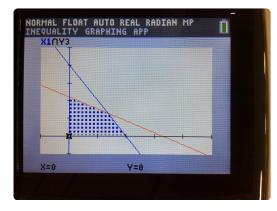
1) Fred's Coffee sells two blends of beans: Yusip Blend and Exotic Blend. Yusip Blend is one-half Costa Rican beans and one-half Ethiopian beans. Exotic Blend is one-quarter Costa Rican beans and three-quarters Ethiopian beans. Profit on the Yusip Blend is \$3.50 per pound, while profit on the Exotic Blend is \$4.00 per pound. Each day Fred receives a shipment of 200 pounds of Costa Rican beans and 330 pounds of Ethiopian beans to use for the two blends. How many pounds of each blend should be prepared each day to maximize profit? What is the maximum profit?

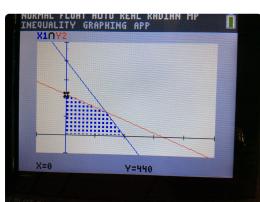
Let X = LBS OF YUSIP BLEND Let Y = LBS OF EXOTIC BLEND			
	Yusip	Exotic	TOTALS
Costa Ricar	1/2	1/4	700
Elopian	1/2	3/4	330
profit	3,50	Ч	
OBJECTIVE FUNCTION			
profit = 3.50x + 4y			
CONSTRAINTS NORMAL FLOAT AUTO REAL RADIAN MP			
$\frac{1}{2} \times +$	$4 \neq 2$ $3 \leq 2$	► Y 2 M (33 ■ Y 3 M 0 ■ Y 4 = ■ Y 5 =	005X)/.25 805X)/.75

Y8= Y9=









IORMAL FLOAT AUTO REAL RADIAN MP Nequality graphing app ۵ Y1NY X=400 ¥=0

 $p_{0}(6) + = 3.5 \times + 4 \gamma$  (0,0) = 10 (0,440) = 1760

