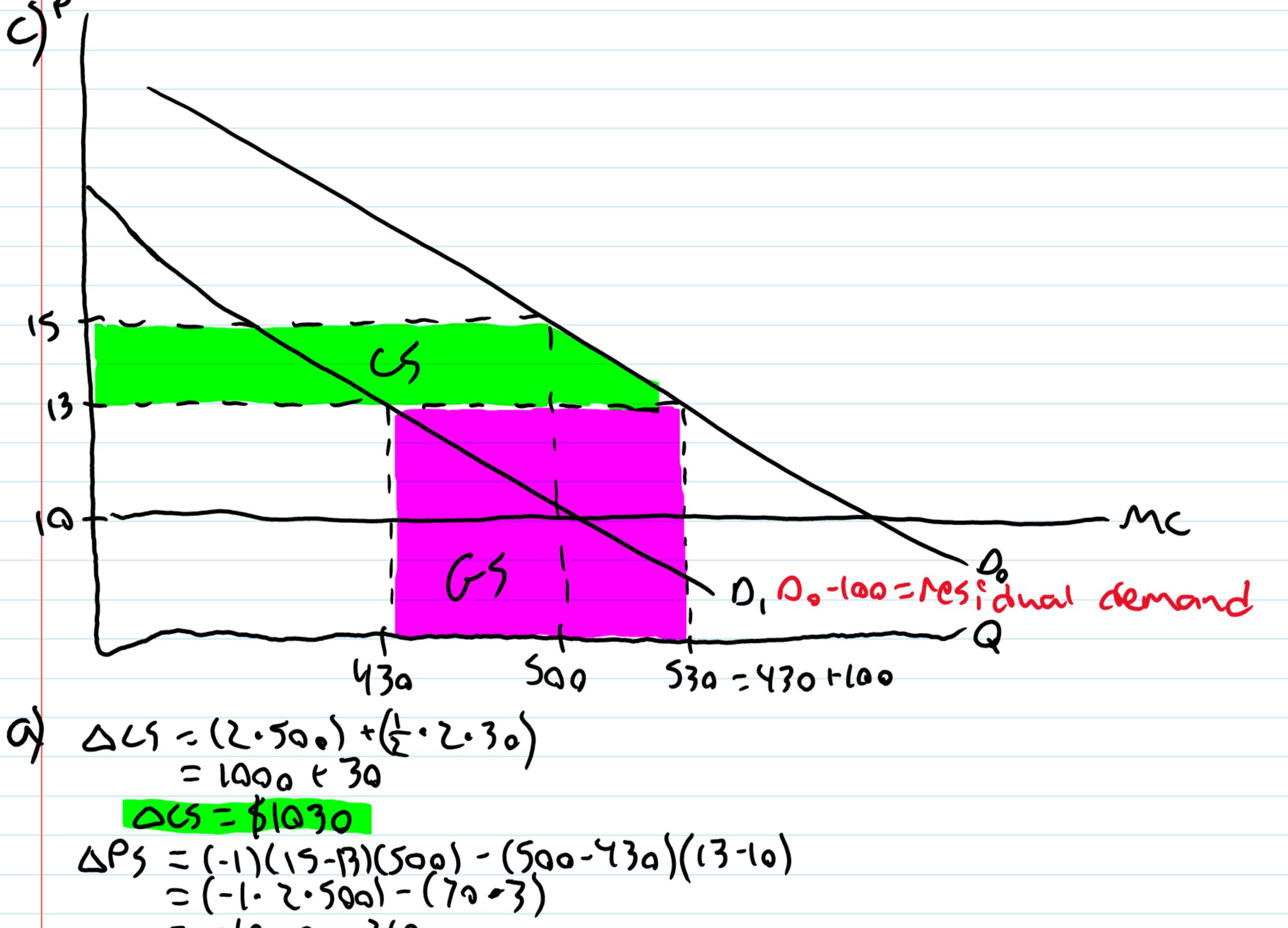
Sunday, September 27, 2020 6:20 PM

Worked W/ Austin Anssed Salution review

Initially, a profit maximizing local monopolist charges \$15 and sells 500 units per week. Per unit variable cost is \$10. Now assume the local government begins to provide 100 units per week at the market price. As a result, the market price falls to \$13 and the quantity sold by the monopolist falls to 430.

- a) Find the changes in CS, PS, and GS created by the monopoly.
- b) Assume the METB is 0.25. Find the changes in SS.
- c) Depict all of this in a diagram. You probably want to sketch the diagram right at the start of the problem for reference as you work, and then to redraw a neat version to submit.



$$\Delta P_5 = (-1)(15-13)(500) - (500-730)(13-10)$$
 $= (-1 \cdot 2 \cdot 500) - (70 \cdot 7)$
 $= -(000 - 2(0)$
 $\Delta P_5 = -12(0)$
 $\Delta P_5 = (530 - 430)(13)$
 $\Delta P_5 = (530 - 430)(13)$

$$\Delta 55 = \Delta 65 + \Delta P5 + (1+METB)(065)$$
= $1030 - 1210 + (1.25 \cdot 1300)$
= $-180 + (625)$
 $\Delta 55 = 1445$