

Date -) there is a DUI because Government lost more the the actual amount received Question 4.1 Demand 0 - 850 - 8P; Supply 6 = 10P => Equiprium; Qp - Qs (=) 850 - 8P - 10P $P_{E} = \frac{425}{9} = 47,22 \rightarrow Q_{E} = \frac{4250}{9}$ (47.22)(47.22) (472,22) $\left(\frac{425}{4} - \frac{425}{9}\right)$ Con Surplus: 1 x + Producer Surplus - 1 × 425 × 4250 - 11149 69 Subsidy \$5 =) new supply: Q = 10(P+5) = 10P+50 10P+50 - 850 - 8P -) P* - 44,444 =) (p*') = 47,22+ (5-(47,22-44,44) - 49,44

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Q* = 10×49,44 = 494,4 1. new Consumer surplus: 1 x (425 - 44,44) x 494,4 15279,4 new producer surplus. 1 × 49,44 × 494,4 - 12221,57 Government lost 5x 494,4 = 2472 494,4 - 472,22) x 5 1 = (15279+12221.57)-2472-113937.11 total supplies received by producer and comsumer is loss than amount paid by the government DWL

Date

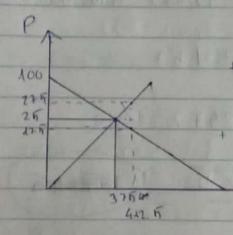
No.

Question 4.2

Demand: Qp = 500 - 5P; Sup : Q = 15P

=) Equilibrium Qp - Qs (5) 500-58-158

=) P= 25; QE = 375.



+ Consumer surplus : 1 x 75 x 375 - 146625

Producer surplus 1 x 25 x 375 - 4687 5

>Q => total . 18750.

* Subsidy \$10

new sipply Q's = 15 (P+10) = 15P + 150

Q's = QD (3) 15P + 150 = 500 - 5P =) P* = 17.5

-> (P*) = 275 > Q* = 27.5 x. 15 = 4.12.5

New consumer surplus = (100 - 17.5) × 4125 - X 17015 6215

+ New producer suplus: 1 275 x 4125 - 5671875

Governor lost: 10x 4125 = 4125

1046

120 133.25

P. surplus - 1 x 10.66 x 133 25

= 710

b) Tax t = 30.

Des New tax supply curve Q's = 100 (P-30)

(=) O's - 100 P = 17.5.375

* New equilibrium.

 $Gs = Qp = 100p - 37.5 = 136.98 - \frac{1}{2.92}p$

(=) 12,84P = 154 48 =) P= 12.03

=> == 39.87 => Q'E = 123,37

=) Government Tax revenue = 3987 × 123,37

> 3701.1

=) DWL - 1 × 30 × C 133. 25 - 123,37)

- 148.2

Qs - 200 p., P- 500 - 5QD Ps - Org. 200 Qs 12 0.06 Qs Equilibrium Ps = Pp (0.06 Qs - 500 - 5Qp. -) pa= - 98.81 P= = 5.9286 - 5.93 Cs = 1 x (500-5.93) x 9881 - 24409 x 5.93 × 98.81 = 293 * tax t = 28. 500 -) new sewer: Ps-30-0.0629 (=) Ps = 0060s + 30 Or 06Qs +30 - 500 - 5Qn GIR GESI PG = 35.5734. = 35.6 New equilibrium

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New equilibrium

 $P - 37 - 1 Q3 \Rightarrow$ $P + \frac{1}{36} Q_{5} + 37$

New equilibrium: 1/36+37 - 444 - 40

=) Q'E = 10.1.04 Q'E = 39.8.

=) new (S = \frac{1}{2} \times (444 - 39.8) \times 101.04

- 20420.

new PS - 1 x 2.8 x 10.1.04 - 141.456

DWL = 1 × C110.2-101.04) × 37

- 169.46