V Nice work Exchange tube sheet definition  $\xi = \frac{\Delta q_0}{1} = -\frac{1}{2} = \frac{1}{2} = \frac{1}$ →Q. €= -1 when bp=qo i.e. oops, for some  $\frac{a}{b+1}$  = (b+1) when  $q = \frac{a}{2}$ reason did elasticity = -b when prices are very high, come super-easer buyers want went anything, as it's above the first buyer's reservation price. As soon as are price falls below that, suddenly some quantity is demanded by the very first buyers, so classicity anymptotes to be at low quantities.

As the gagged price falls further, go becomes less sensitive as more people where their wants met and have less interested in buying the good than early buyers. At the satistion point, no price regardless low (our, could possibly persuable people that they want more of the good, So q is insensitive to p.

Okgood Make it clear that this is all about percentage charges.

The R log p = \frac{1}{2} log q = -5 or p = es sqs [ossuming log = base e?] Taking derivatives of the invese supply function w.r.t. 93  $\frac{1}{P} \frac{dP}{dq_5} = \frac{1}{2q_5}$ , and  $E = \frac{1}{Q_5} \times \frac{1}{q}$ so we have  $\frac{dq_5}{dp} \times \frac{1}{q} = 2 = 2$ i.e. the elasticity of supply does not vory along the

 $\mathcal{E} = -0.5 = \frac{\Delta q_0}{\Delta p} \times q^*$   $q^* = 2 \div 0.1 = 20$ 8 a)  $\frac{490}{40} = \frac{-0.5 \times 20}{0.1} = -100$ 50  $q = \alpha - 100 \rho$  and using (20, 0.1)  $\alpha = 30$   $\therefore \rho = 0.3 - \frac{1}{100} q$  and works with (0.1, 20).  $q = c \times p^*, \quad 200 \quad c = \frac{qs}{p^*} = 200$  $i, \rho = \frac{1}{200} q_s \sqrt{\phantom{a}}$ c) i)  $CS = \frac{1}{2} \left( q^* \times \left( p_{resu.p} - p^* \right) \right) = 10 \times (0.3 - 0.1) = £2 million$ Total welfare gain to consumers of making these trades: the £ wTP 
Exprice for all units purchased; i.e. value of consumption to consumer

net of price pard ii)  $15 = \frac{1}{2} \left(q + (p - p)\right) = 10 + (0.1 - 0) = £1 million$ Total welfare gain to consumes of making these trades: £price - £wth

for all units purchased i.e. make of price produces are paid net of their valuation of the good.

Brook Course Receipens, New DE BASO supply 3 curve steepens. correct relation? i.e. price the consumer 15 and at new po, q, 500 q = 0.3 - 100 q Charged [and I think it graker sens :. q = 18.75, p= 0.1125 it's gone up by mess than 0.2 sto.1. Because demand is OWL= 2 (20-14.75) ( # 2000) Somewhat elastic = 600 £ 0.0117 million ii) Gou't rev = (Po-Ps) + q = 0.0125 x 18.75 = £0.234 million Gov. rev = B+D = q x (Po-Ps) CS = A = \( 2 (q x (rest po - po)) 5 (Ps)  $PS = F = \frac{1}{2}(9 \times (P_S - 0))$ DWL= C + E = (q\* - q) (Po-P\*) = 2(q\*-q)(Po-Ps) + 2 (g x - g) (px - ps) I found it easier to start at end and ge backnads...] C= 1/2(26-18-75)(0.1125-0.1)= 10.007813 million Incidence on consumers = 12 (20-18-75) (0.1-0.09375) = fo.003906 million Ineidence on producers So there is time as much incidence on consumers as producers. f) If | E| is greater, since pt and gt are fixed, by is more negative i.e. were demand curve shallower Inthon situal regardly come (CS is began in the initial equilibrium since Presu o is granter. PS unchanged. With UAT there is none DWL and government raises loop revenue than before, because demand is now sensitive to the higher price and so quantity the president p) The incidence is greater on the relatively more inclusive side.

