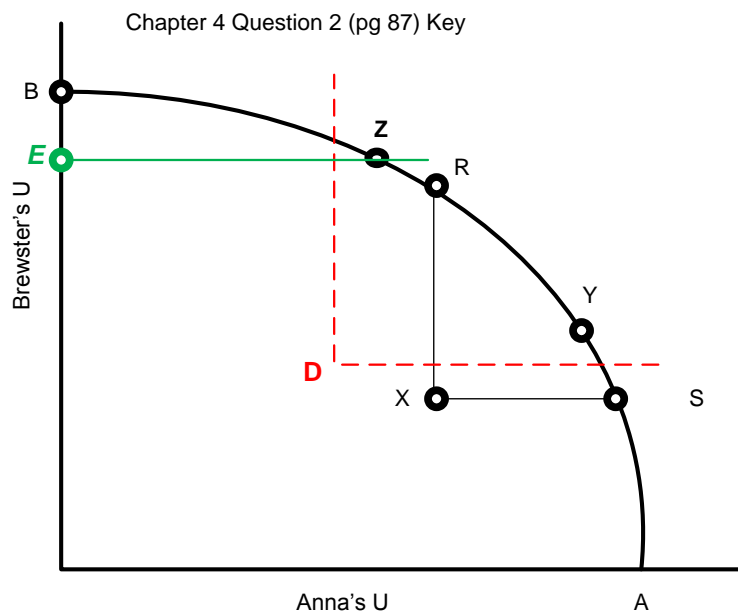


## ECON 460 Home Work 1 Answer Key (Kolstad Text)

**pg 110 #1**

Public good: sum demands vertically

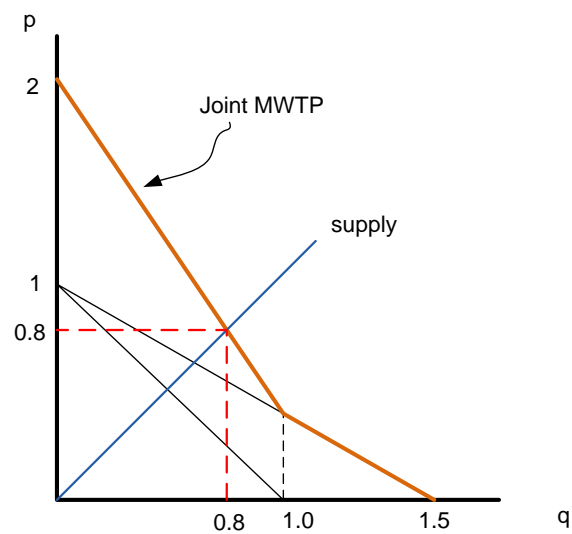
$q_H = 1 - P$  and  $q_M = 2 - 2P$  or

$p = 1 - q$  and  $p = 1 - 1/2q$

Sum MWTP:  $P = 2 - 1.5q$

MC:  $P = q$  (supply)

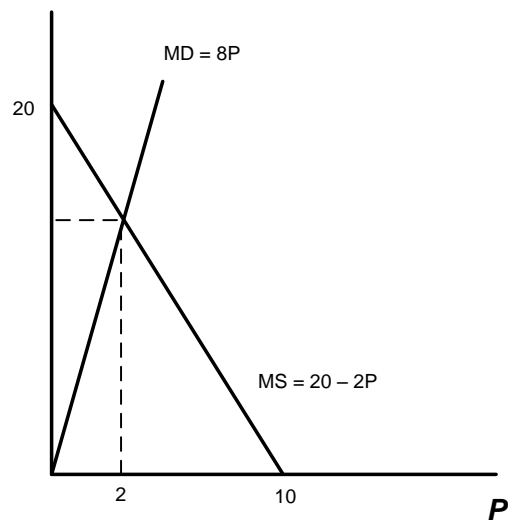
Substitution:  $P = 2 - 1.5P \Rightarrow 2.5P = 2, \Rightarrow P = 0.8$  and  $q = 0.8$



**Question #5,**

(a)  $MD^T = 8P$

(b)



(c)  $P = 10, P^* = 2$

(d)  $MWTP^T = 80 - 8A$

$MC(A) = 2A$

(e)  $A^* = 8$