## Lab 5\_Answers MD

Q.1 Note MP, 
$$5 \stackrel{\Delta y}{=} = 2$$
 $MP_2 = \Delta y = 5 \leftarrow Mgher 5 L M$ 
 $\frac{\Delta z_1}{\Delta z_2}$ 

• Here 
$$MP_1 = \frac{2}{5} = \frac{\omega_1}{3} = \frac{4}{8} = \frac{1}{2}$$

$$SO \frac{MP_1}{MP_2} < \frac{\omega_1}{\omega_2} \Rightarrow Use ony  $Z_2$$$

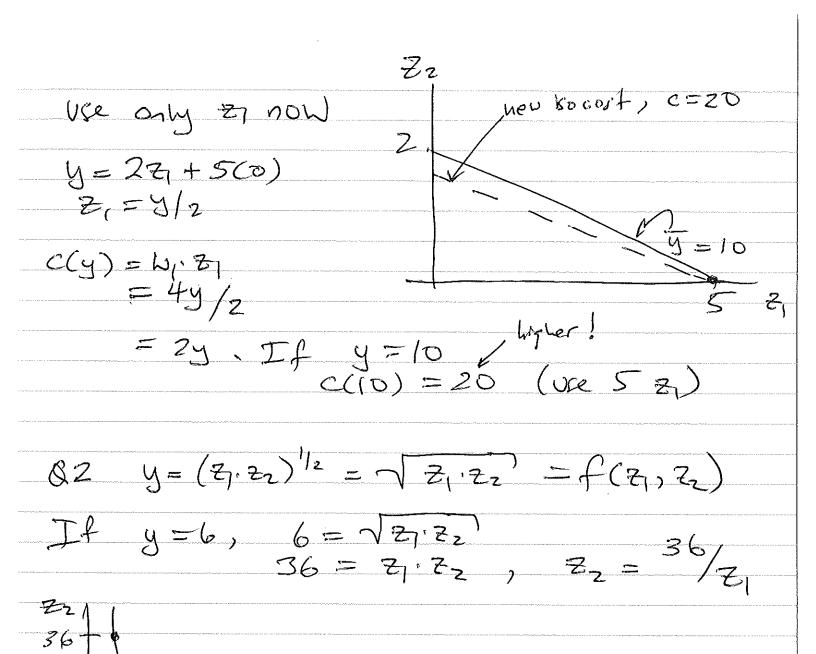
$$50 \quad y = 2(0) + 5z, \quad z = \frac{9}{5}$$

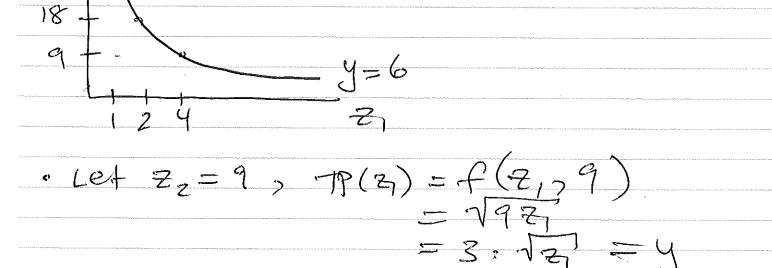
$$C(y) = W_1 + W_2 + Z_2 = 84$$

When 
$$W_2 = 12$$
,  $\frac{W_1}{W_2} = \frac{4}{12} = \frac{1}{3} \times \frac{2}{5}$ 

(Bocost)

Now: Shace 
$$3\sqrt{2}_1 = y$$
 $\sqrt{2}_1 = y/3$ 
 $\sqrt{2}_1 = (y/3)^2$ 
 $\sqrt{$ 





If 
$$y=|2$$
,  $z_1=(|2/3|)^2=4^2=|6|$ 
 $TC(|2|)=2(|2|)^2+72=360$ 
 $-0.92=16$   $z_1$ ,  $conto |6| × 18=288$ 
 $-0.92=9$   $z_2$ ,  $costo |72=4/2|$ 

The  $z_2=|6|$ ,  $y=|6|z_1=4/2|$ 
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$$A = \begin{cases} f(2z, 2z_1) = (2z_1)(2z_2) \\ = 4z_1 \cdot z_2 \\ > 2f(z_1)z_2 \end{cases}$$

$$= 2z_1 \Rightarrow y = z_1 \cdot z_1 = z_1^2$$

$$= 2z_1(y) = \sqrt{y} = z_2(y)$$

$$C(y) = 2\sqrt{y}$$

$$LA(=C(y)) = 2\sqrt{y}$$

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$$LA(=(z_1, z_2))^{1/2}$$

$$= (2z_1, z_2)^{1/2}$$

