



d) (1)
$$5 \times_{2} = P_{1}$$
 $2 \times_{1} = Z$
(2) $P_{1} \times_{1} + Z \times_{2} = 30$
 $10 \times_{2} = 2P_{1} \times_{1}$
 $\times_{2} = 2P_{1} \times_{1}$
 $\times_{2} = 2P_{1} \times_{1}$
 $P_{1} \times_{1} + Z \cdot_{1} \times_{1} = 30$
 $P_{2} \times_{1} = 150$
 $P_{3} \times_{1} = 150$
 $P_{4} \times_{1} = 150$

e) $X_1 = X_1(m)$ (i) $5 \times 2 = 8$ $7 \times 1 = 2$ (2) $8 \times 1 + 7 \times 2 = m$ $7 \times 1 = 5 \times 1 = 5$

No. as P. increases,
150/27 decreases

3) Normal or interior?

Normal. as m increases

5 m/56 increases

#4)
$$f(K,L) = KL^{1/2}$$
 $K = 8 \ \omega = 8 \ \Gamma = 10, P = 7$

a) Find L^{*} (short run TT-max)

$$PMPL = \omega$$

$$PMPL = \frac{1}{2} KL$$

$$2(\frac{1}{2}8 \cdot L^{-1/2}) = 8$$

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$$2(\frac{1}{2}2 \cdot L^{-1/2}) = 8$$

$$1 \ L^{-1/2} = 1$$

$$1 \ L^{-1$$