

Week 13

NO.  
DATE

$$(A) MR = 100 - 2q = 20 \quad q = 40 \quad p = 60 \quad ML = \frac{60-20}{60} = \frac{2}{3}$$

$$\pi^* = 40 \times 60 - (30 + 20 \times 40) = 1570$$

$$(B) \frac{1}{2} \times 40 \times 40 = 800$$

$$(C) \frac{60-20}{60} = \frac{2}{3}$$

$$(D) MR = MC + 10 \quad 100 - 2q = 30 \quad q = 35 \quad p = 60$$

$$\pi = (35 \times 60) - (30 + (20 \times 35)) - 10 \times 35 = 1195$$

$$(E) 0.9(100 - 2q) = 20 \quad q = \frac{350}{9} \quad p = \frac{550}{9}$$

$$\pi = \left( \frac{350}{9} \times \frac{550}{9} \times 0.9 \right) - 30 \left( 20 \times \frac{350}{9} \right) = 1331$$

$$(F) : q = 40 \quad p = 60 \quad 1570 - 1000 = 570$$

$$(G) 1570 \times 0.8 = 1256$$

$$(H) P = MC \rightarrow 100 - 2q = 20 \quad q = 80 \quad p = 20$$

$$(80 \times 20) - (30 + 20 \times 80) = -30$$