## 3 Extra Problems

6:13 PM

Monday, February 1, 2021

$$P_{1} = 20^{-1}149$$
,  $P_{2} = 20^{-1}129$ ,  $(0)^{2} + 2\overline{9}$   
 $I_{1} = (20^{-1}129) + (20^{-1}$ 

Inverse demand is p=100-2q with probability 0.6 and otherwise it is p=80-2q. Cost is 20 per unit.

Output not sold can be repurposed at a value of 5 per unit.

Determine quantities and prices for each state of demand and expected profit.

$$\frac{d\pi}{q_{1}} = \frac{-12x - 210}{5} \Rightarrow \frac{-75}{5} = 17.5$$

$$\frac{d\pi}{q_{1}} = \frac{-8x - 150}{5} \Rightarrow \frac{-75}{5} = 18.75$$

try again

(T-.6(100-29)9+.4(10-49)9-209