7/22/2020 Quiz 4

Quiz 4

Question 1

Jacques (pronounced YOK) and Amanda are realtors in the fictitious St. Bernard Parish. Jacques exclusively sells haunted houses which often fetch a premium price. Amanda exclusively sells homes akin to the sheds you might see marketed in front of a Home Depot. The demand for haunted houses is $Q_J = 120 - \frac{1}{5}P_J$ while the demand for shed-style homes is $Q_A = 24 - P_A + \frac{1}{5}P_J$. Jacques has a competent team and has no trouble selling haunted houses in Louisiana, so his cost per home is \$1 per home. Amanda, on the other hand has an incompetent and inefficient team so her costs are \$4 per home.

- a. From the demand equations alone how is the demand for haunted houses related to the demand for shed-style homes and vice-versa?
- b. Write the profit function for each realtor in terms of P_J and P_A

7/22/2020 Quiz 4

c. Find the Nash equilibrium price, quantity, and profit for each realtor.

Question 2

The Copeland Index is a **plurative** method of ranking votes. *T/F*

Question 3

The Intensity ranking method overcomes the Borda count's violation of the independence of irrelevant alternatives assumption. *T/F*