

HW#4 From Problem and Applications of Mankiw book, Chapter 4 The Market Forces of Supply and Demand

#1 Answer only part (b) and (e). Follow the instruction of the question and, in addition, and describe the market mechanism that causes the change in the market equilibrium.

3. Consider the market for minivans. For each of the events listed here, identify which of the determinants of demand or supply are affected. Also indicate whether demand or supply increases or decreases. Then draw a diagram to show the effect on the price and quantity of minivans.

~~a. People decide to have more children.~~

b. A strike by steelworkers raises steel prices.

~~c. Engineers develop new automated machinery for the production of minivans.~~

~~d. The price of sports utility vehicles rises~~

e. A stock market crash lowers people's wealth.

#

11. Suppose that the price of basketball tickets at your college is determined by market forces. Currently, the demand and supply schedules are as follows:

Price	Quantity Demanded	Quantity Supplied
\$4	10,000 tickets	8,000 tickets
8	8,000	8,000 ← equilibrium
12	6,000	8,000
16	4,000	8,000
20	2,000	8,000

- Draw the demand and supply curves. What is unusual about this supply curve? Why might this be true?
- What are the equilibrium price and quantity of tickets?
- Your college plans to increase total enrollment next year by 5,000 students. The additional students will have the following demand schedule:

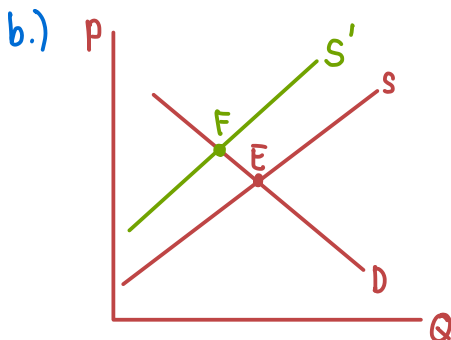
Price	Quantity Demanded
\$4	4,000 tickets
8	3,000
12	2,000
16	1,000
20	0

Now add the old demand schedule and the demand schedule for the new students to calculate the new demand schedule for the entire college. What will be the new equilibrium price and quantity?

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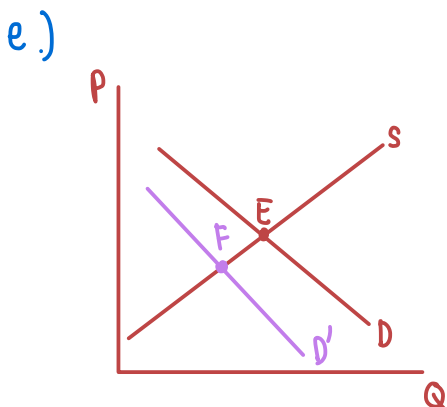
## Solution

3.)



If a strike by steelworks raises steel prices, the cost of production increases. Lead the supply of minivans to decrease and the demand doesn't change.

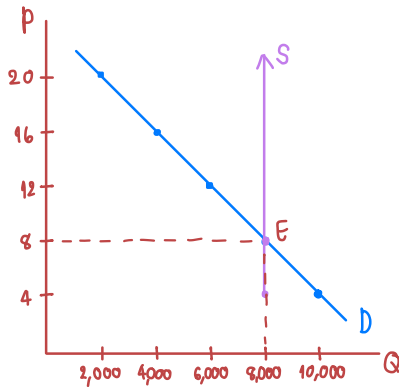
When the price of minivans rises, the quantity of minivans decreases.



If a stock market crash lowers people's wealth, people have lower income. As people have less ability to buy minivans, the quantity of minivans sold declines. So, demand of minivans decrease and supply isn't affected.

11.

a.)

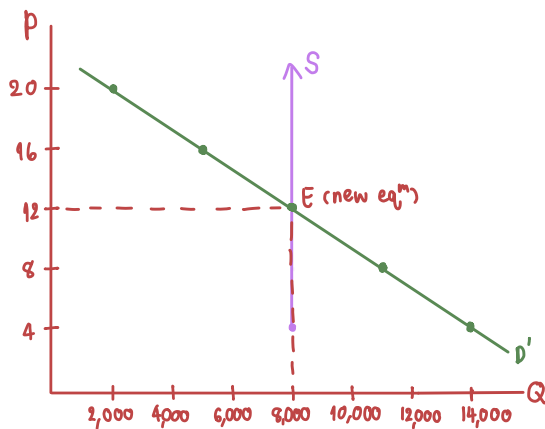


The unusual about this supply curve is this is extreme case (vertical supply) and it might be true because the seller want to sell at same quantity (8,000 tickets) as long as the price is greater than or equal to \$4.

b.) The equilibrium price and quantity of tickets is \$8 and 8,000 tickets.

c.)

Price	Quantity Demanded	Quantity Supplied
4	14,000 tickets	8,000
8	11,000	8,000
12	8,000	8,000 ← New eq. <sup>m</sup>
16	5,000	8,000
20	2,000	8,000



∴ The new equilibrium price and quantity will be \$12 and 8,000 tickets.