

ECO 120: Global Macroeconomics
Week 2 Homework: Supply and Demand

Name: _____

Directions: Notice that all problems ask you for a descriptive answer in addition to performing a calculation or manipulating a graphical model. For full credit, make sure that you do both. You may print these sheets and put your answers in the space provided or you may use your own paper to write your answers.

When you have finished, scan or take pictures of your work, combine all images to a single PDF file, assure that all pictures are oriented right-side up, and upload your work as a single PDF file to the Canvas Assignment area. You may use <https://www.easypdfcloud.com/> to combine your images to a single PDF file.

For each of the following problems, read the scenario and determine the following (in order):

- Does the scenario cause a shift in the demand and/or supply curve? If so, which curve, which direction?
 - Draw the supply and demand curves with appropriate shifts.
 - Label the original and new equilibrium price and quantities.
 - What is the impact of the scenario on price? What is the impact on quantity?
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1. Gasoline prices rose globally and in the United States in 2008. Describe and illustrate the impact on the market for compact fuel efficient cars, such as the Toyota Prius.

2. Suppose a hurricane causes damage to agricultural production in the U.S. Southeast. Describe and illustrate the impact on the market for agricultural products.

3. During the COVID-19 pandemic, people and businesses had a greater desire and need to work remotely, using computer technology to collaborate and communicate with each other. Describe and illustrate the impact on the market for computer microchips.

4. The COVID-19 pandemic caused a disruption of production of manufactured goods throughout the world, including production of bicycle frames and components. At the same time, while people worked from home and attended school from home, had limited social interaction, and had limited opportunities for fitness, more people desired to take up bicycling for a hobby. What is the impact on the market for bicycles?

5. Walmart sells a number of inferior goods, such as inexpensive off-brand clothing, off-brand food, etc. The 2020 COVID-19 recession was accompanied with decreases in income for people across the country. What is the impact on the market for inferior goods at Walmart? What is the impact on Walmart's total revenue earned from inferior goods?

6. Suppose the federal government increases the tax subsidy on ethanol given to ethanol producers (a subsidy is a payment made by the government to an individual or firm, usually for performing some kind of action, like production of a particular product). Describe and illustrate the impact on the market for gasoline blended with ethanol.

7. Suppose there is a technological innovation making it easier and less costly to recycled paper, and at the same time, people become more concerned about using environmentally-friendly products. Describe and illustrate the impact on the equilibrium price and quantity of recycled paper.