V6
3.
$$Q_{F} 1750-50p$$
 $Q_{S} = 100p$ D) $T_{CZ} = 0$ \$5
 $Q_{S} = 200p$ $Q_{S} = 100p$ $Q_{S} = 100p$ $Q_{S} = 100p$ $Q_{S} = 200p$ $Q_{S} = 20p$ $Q_{S} = 2p$ $Q_$

- a. True. The maximum willingness to pay is given by the price intercept of the inverse demand function, \$35.00
- b. False. The equilbrium price is equal to \$21.00
- c. True. The equilibrium quantity is equal to 700
- d. False. The new equilibrium quantity is equal to 600
- e. True. The new equilibrium quantity is equal to 600 and the price is equal to 23
- f. True. The increase in demand, all else equal, means an increase in quantity which means an increase in tax revenue.

$$V_{4} = \frac{1400 - 160P}{3} = \frac{160P}{3}$$

$$1400 - \frac{160P}{3} = \frac{160P}{3}$$

$$1400 = \frac{900P}{3}$$

$$P = \frac{91}{3}, Q = \frac{700}{3}$$

$$V_{4} = \frac{900P}{3}$$

$$P = \frac{91}{3}, Q = \frac{700}{3}$$

$$V_{5} = \frac{160P}{3}$$

$$V_{6} = \frac{160P}{3} = \frac{160P}{3}$$

$$V_{7} = \frac{160P}{3}$$

a. False. The maximum willingness to pay is given by the price intercept of the inverse demand function, \$42.00

b. False. The equilbrium price is equal to \$21.00

c. True. The equilibrium quantity is equal to 700

d. False. The new equilibrium quantity is equal to 600

e. True. The new equilibrium quantity is equal to 600 and the price is equal to 24

f. True. The increase in demand, all else equal, means an increase in quantity which means an increase in tax revenue.

a. False. The maximum willingness to pay is given by the price intercept of the inverse demand function, \$40.00

b. False. The equilbrium price is equal to \$20.00

c. True. The equilibrium quantity is equal to 1000

d. False. The new equilibrium quantity is equal to 875

e. True. The new equilibrium quantity is equal to 875 and the price is equal to 22.5

f. True. The increase in demand, all else equal, means an increase in quantity which means an increase in tax revenue.

$$Q = 300 - \frac{1}{3} \qquad Q_{S} = \frac{1}{3} \qquad Q = \frac{1}{4} \qquad P$$

$$300 = \frac{9}{3} \qquad Q_{S} = \frac{1}{3} \qquad P$$

$$100 = \frac{9}{3} \qquad Q_{S} = \frac{1}{3} \qquad P$$

$$100 = \frac{9}{3} \qquad Q_{S} = \frac{1}{3} \qquad P$$

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$$100 = \frac{1}{3} \qquad Q_{S} = \frac{1}{3}$$