

$$Q = 1,000 - 200P$$

$$200P = 1,000 - Q$$

$$P = \frac{1,000}{200} - \frac{1}{200}Q$$

$$P = 5 - 0.005Q$$

$$Q = 1000 - 200P$$

$$Q = 1,000 - 200P$$

$$200P = 1,000$$

$$P = \frac{1,000}{200}$$

$$\Rightarrow \boxed{P = 5}$$

$$Q = 1,100 - 200P$$

$$200P = 1,100 - Q$$

$$P = \frac{1,100}{200} - \frac{1}{200}Q$$

$$P = \underbrace{5.5} - \underbrace{0.005Q}$$

$$Q^D = 1,000 - 200P$$

$$P^* = 3$$

$$Q^* = 1,000 - 200(3)$$

$$Q^* = 1,000 - 600$$

$$\boxed{Q^* = 400}$$

$$50 - 0.5P = -25 + P$$

$$\underline{50} - \underline{0.5P} + \underline{25} + \underline{0.5P} = \underline{-25}$$

$$\underline{+P} + \underline{25} + \underline{0.5P} \Rightarrow \boxed{P = 50}$$

$75 = 1.5P$

$$Q^S = 200P - 200$$

$$P^* = 1.75$$

$$P^* = \frac{7}{4}$$

$$Q^* = 200\left(\frac{7}{4}\right) - 200$$

$$Q^* = 50(7) - 200 = 350 - 200$$

$$Q^* = 150$$

$$Q^S = 200P + 200$$

$$P^* = 2$$

$$Q^* = 200(2) + 200 = 400 + 200$$

$$Q^* = 600$$