

經濟 = 17 11 12 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Week 15

$$(C) \pi = (60 - q_1) \times q_1$$

$$1. p = 60 - q \quad TC = 30q:$$

$$+ (60 - q_2) \times (q_2 - q_1) = 30q_2$$

$$1A) MR = 60 - 2q, MC = 30 \Rightarrow MR = MC = 60q_1 - q_1^2 + 60q_2 - 60q_1 - q_2^2 + q_1q_2$$

$$60 - 2q = 30$$

$$- 30q_2 = -q_1^2 + 30q_2 - q_2^2 + q_1q_2$$

$$q = 15 \quad p = 45$$

$$\pi = 15 \times 45 - 30 \times 15 = 225$$

$$CS = \frac{15 \times 15}{2} = 112.5 \quad PS = 615 - 450 = 165$$

$$TS = 112.5 + 165 = 277.5$$

$$1B) p = MC \Rightarrow 60 - q = 30, q = 30 \quad p = 30$$

$$TC = \frac{30 \times 30}{2} + 30 \times 30 - 30 \times 30$$

$$= 1350 - 900$$

$$PS = 1350 - 900 = 450$$

$$= 450 \quad CS = 0$$

$$TS = 450$$