

$$1. \mathcal{T}p = \{e_3, e_5, e_{10}, e_{12}\}, \text{ ~~the~~$$

$$f(e_3) = \min[\infty, 0^+ + 1] = 1$$

$$f(e_5) = \min[\infty, 0^+ + 5] = 5$$

$$f(e_{10}) = \min[\infty, 0^+ + 1] = 1$$

$$f(e_{12}) = \min[\infty, 0^+ + 2] = 2$$

$$f(e_{i^*}) = \min[f(e_i)] = f(e_3) = f(e_{10}) = 1$$

$$\text{выбираем } f(e_3) = 1^+, p = e_3$$

$$2. \mathcal{T}p = \{e_1, e_2\}$$

$$\text{~~the~~ уможнум } e_1: f(e_2) = \min[\infty, \text{~~0~~ } 1^+ + 4] = 5$$

$$f(e_{i^*}) = \min[f(e_i)] = f(e_{10}) = 1^+, p = e_{10}$$

$$3. \mathcal{T}p = \{e_1, e_2, e_4, \text{~~e_8~~, } e_{12}\}$$

$$\text{уможнум } e_1:$$

$$f(e_2) = \min[5, 1^+ + 5] = 5$$

$$f(e_4) = \min[\infty, 1^+ + 5] = 6$$

$$f(e_8) = \min[\infty, 1^+ + 4] = 5$$

$$f(e_{12}) = \min[2, 1^+ + 2] = 2$$

$$\text{~~f~~ } f(e_{i^*}) = \text{~~f~~ } \min[f(e_i)] = f(e_{12}) = 2^+, p = e_{12}$$