

$$a. \quad x_2 = 1 - ax_1, \quad ax_1 + x_2 = 1, \quad x_1 + x_2 = 2$$

$$x_1 + 1 - ax_1 = 2$$

$$x_1 = \frac{1}{1-a}$$

$$x_2 = 2 - x_1$$