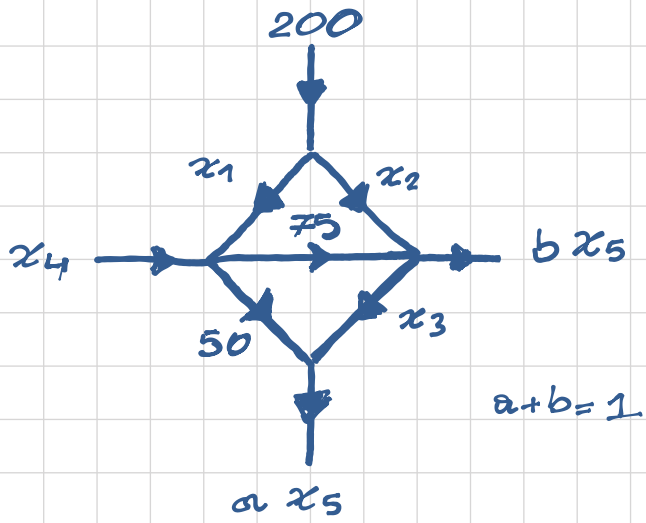


Networks



$$200 + x_4 = ax_5 + bx_5 = x_5 \rightarrow x_4 = x_5 - 200$$

$$200 = x_1 + x_2$$

$$x_1 + x_4 = 50 + 75 = 125 \rightarrow x_1 = 125 - x_4$$

$$x_2 + 75 = x_3 + bx_5 \rightarrow x_2 = bx_5 + x_3 - 75$$

$$x_3 + 50 = ax_5 \rightarrow x_3 = ax_5 - 50$$

$$a+b=1$$

x_5 FREE VARIABLE

$$x_1 = 125 - x_5 + 200 = 325 - x_5$$

$$x_5 \leq 325$$

$$x_2 = bx_5 + ax_5 - 50 - 75 = x_5 - 125$$

$$x_3 = ax_5 - 50$$

$$a \geq 50/x_5$$

$$x_4 = x_5 - 200$$

$$x_5 \geq 200$$

$$cc \quad x_5 = 200_{33}$$

$$x_1 = 125$$

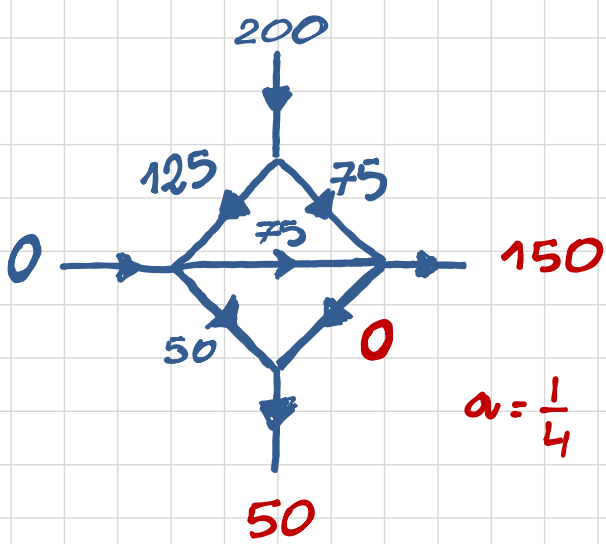
$$x_2 = 75$$

$$x_3 = 200a - 50$$

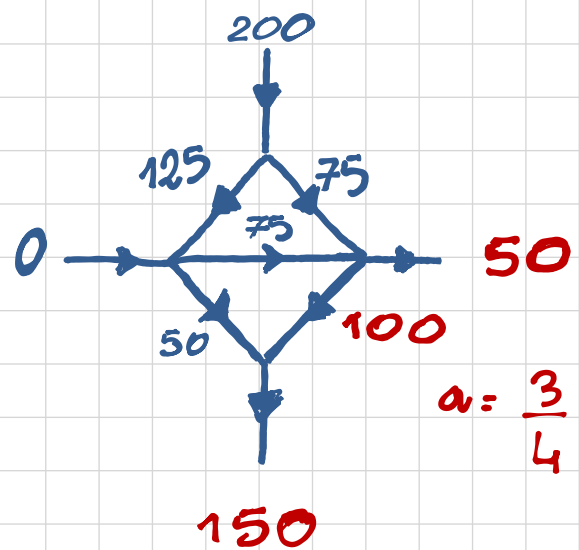
$$x_4 = 0$$

$$a = \frac{1}{4} \quad (125, 75, 0, 0)$$

$$a = \frac{3}{4} \quad (125, 75, 100, 0)$$



$$a = \frac{1}{4}$$



$$a = \frac{3}{4}$$

$$cc \quad x_5 = 325$$

$$x_1 = 0$$

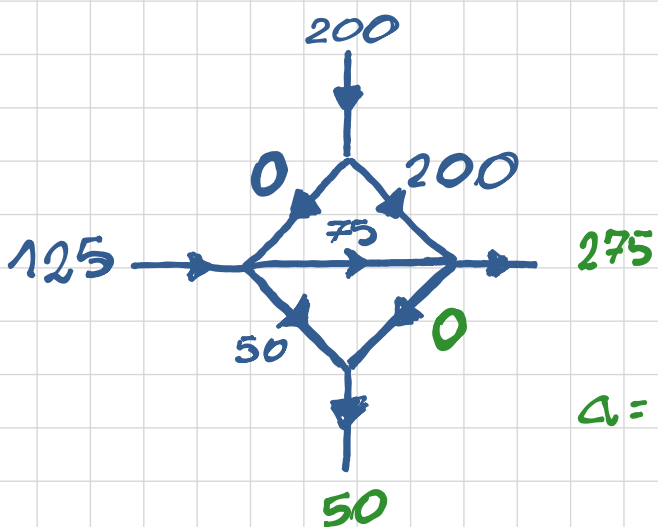
$$x_2 = 200$$

$$x_3 = 325a - 50$$

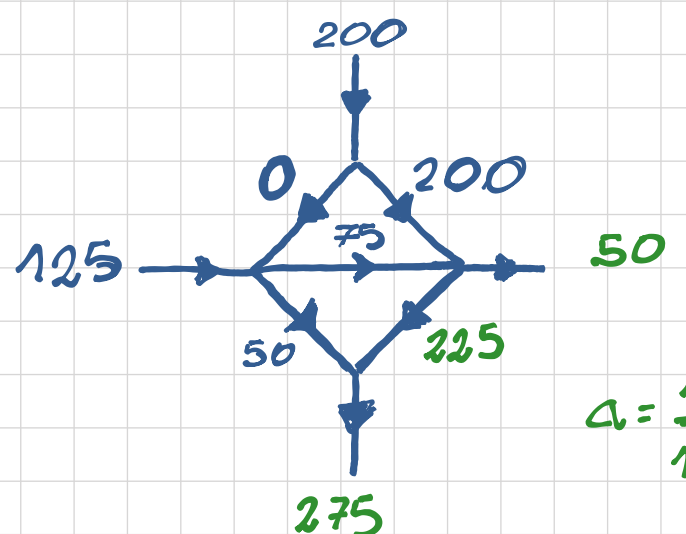
$$x_4 = 125$$

$$a = \frac{2}{13} \quad (0, 200, 0, 125)$$

$$a = \frac{11}{13} \quad (0, 200, 225, 125)$$



$$a = \frac{2}{13}$$



$$a = \frac{11}{13}$$