1. 求下图所示系统的节点<mark>导纳</mark>矩阵(数字是<mark>阻抗</mark>的标幺值)。

$$Y_{33*} = \frac{1}{-j29} + \frac{1}{6.124j0.5} + \frac{1}{0.14j0.4} + \frac{1}{j0.3} = 1.042 - j7.543$$

$$Y_{14*} = -\frac{1}{j_{0.5}} = j_{3.313}$$

Yx =

Y24 = 0

2 Y21x = Y12x = -0.4804+j 2.404

Y234= - 0.1+jo.4 = -0.588-j2.353

Y11x = - j14 + 0.08+j0.4 + 0.1+j0.4 = 1.069 - j4.727

$$\gamma_{44\pi} = \frac{1}{j03} = -j3.333$$

