$$\rho_2 = \frac{-\theta_2 + \theta_1\theta_2}{1 + \theta_1^2 + \theta_2^2} = \frac{-.48 + 0}{1 + (-.2)^2 + (.48)^2} = \frac{-.48}{1.2704} = -.378$$

$$\rho_1 = \frac{-\theta_2 + \theta_1\theta_2}{1 + \theta_1^2 + \theta_2^2} = \frac{.2 + (-.2)(.48)}{1 + (-.2)^2 + (.48)^2} = \frac{.104}{1.2704} = .082$$

$\theta_1 = -.2 \quad \theta_2 = .48$

$$\rho_k = \frac{-\theta_k + \sum_{j=1}^{q-k} \theta_j \theta_{j+k}}{1 + \sum_{j=1}^{q} \theta_j^2}$$

$\rho_0 = 1$ (always equal to 1)

$\rho_1 = .082$

$\rho_2 = -.378$

$\rho_3 = 0$ (because $q = 2$)