

1.3-3 In all parts, substitute coordinates of nodes into Eq. 1.3-5.

$$(a) \phi_1 = a_1 \quad \therefore a_1 = \phi_1$$

$$\phi_2 = a_1 + a a_2 \quad \therefore a_2 = (\phi_2 - \phi_1)/a$$

$$\phi_3 = a_1 + b a_3 \quad \therefore a_3 = (\phi_3 - \phi_1)/b$$

$$\phi = \phi_1 + \frac{\phi_2 - \phi_1}{a} x + \frac{\phi_3 - \phi_1}{b} y$$