

System of simultaneous equations that are too wide for paper

$$\left| \begin{array}{cccc}
 \int_{\Omega} L(\phi_1(x, y)) \phi_1(x, y) dx dy & \int_{\Omega} L(\phi_2(x, y)) \phi_1(x, y) dx dy & \dots & \int_{\Omega} L(\phi_{nxy}(x, y)) \phi_1(x, y) dx dy \\
 \int_{\Omega} L(\phi_1(x, y)) \phi_2(x, y) dx dy & \int_{\Omega} L(\phi_2(x, y)) \phi_2(x, y) dx dy & \dots & \int_{\Omega} L(\phi_{nxy}(x, y)) \phi_2(x, y) dx dy \\
 & & \dots & \\
 \int_{\Omega} L(\phi_1(x, y)) \phi_{nxy}(x, y) dx dy & \int_{\Omega} L(\phi_2(x, y)) \phi_{nxy}(x, y) dx dy & \dots & \int_{\Omega} L(\phi_{nxy}(x, y)) \phi_{nxy}(x, y) dx dy
 \end{array} \right| \times$$

$$\left| \begin{array}{c}
 U_1 \\
 U_2 \\
 \dots \\
 U_{nxy}
 \end{array} \right| = \left| \begin{array}{c}
 \int_{\Omega} f(x, y) \phi_1(x, y) dx dy \\
 \int_{\Omega} f(x, y) \phi_2(x, y) dx dy \\
 \dots \\
 \int_{\Omega} f(x, y) \phi_{nxy}(x, y) dx dy
 \end{array} \right|$$