1. In the course, we have represented the solution by using single layer potential

$$u(x) = \int_B U(s,x)\boldsymbol{f}(s)dB(s), \qquad x \in D.$$

Can we represent the field solution by

$$u(x) = \int_B T(s,x)\boldsymbol{y}(s)dB(s), \qquad x \in D.$$

$$u(x) = \int_B L(s,x)\boldsymbol{f}(s)dB(s), \qquad x \in D.$$

$$u(x) = \int_B M(s,x)\boldsymbol{y}(s)dB(s), \qquad x \in D.$$

2. In the same way, can we represent the solution by

$$u(x_i) = \sum_j U(s_j,x_i)\boldsymbol{f}_j,$$

$$u(x_i) = \sum_j T(s_j,x_i)\boldsymbol{y}_j,$$

$$u(x_i) = \sum_j L(s_j,x_i)\boldsymbol{f}_j,$$

$$u(x_i) = \sum_j M(s_j,x_i)\boldsymbol{y}_j.$$