

**2.10** Derive Eq. (2.32) from Eq. (2.31).

Eqs. 2.32  $a_1 - a_2 = \frac{qL}{2K} + \frac{QL^2}{8K}$  ,  $-a_1 + 2a_2 = \frac{QL^2}{4K} + T_L$  adding  $a_2 = \frac{qL}{2K} + \frac{3QL^2}{8K} + T_L$  and

substituting into the first equation  $a_1 = \frac{qL}{K} + \frac{QL^2}{2K} + T_L$