

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 $a_1 = \frac{qL}{K} + \frac{QL^2}{2K} + T_L$