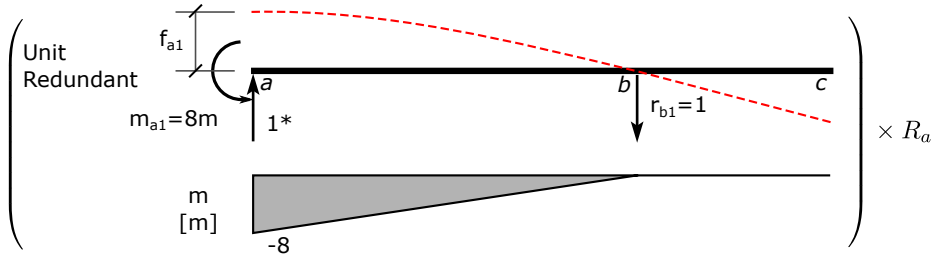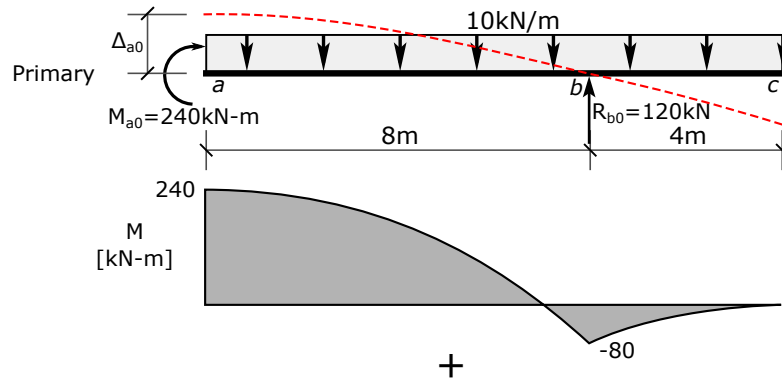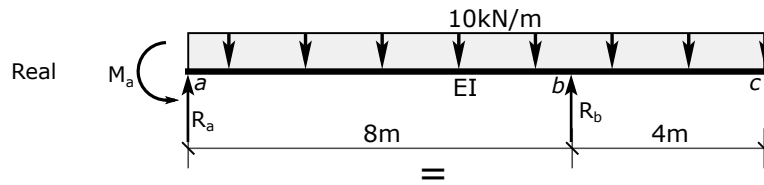**Problem 8.3**

1° S.I. Choose R_a as the redundant.

$$\Delta_{a0} = \int \frac{mM}{EI}$$

$$f_{a1} = \int \frac{mm}{EI}$$

$$0 = \Delta_{a0} + R_a f_{a1}$$

$$M_a = -M_{a0} + R_a m_{a1}$$

$$R_b = R_{b0} - R_a r_{b1}$$

Solutions will be as for problems 8.1 and 8.2