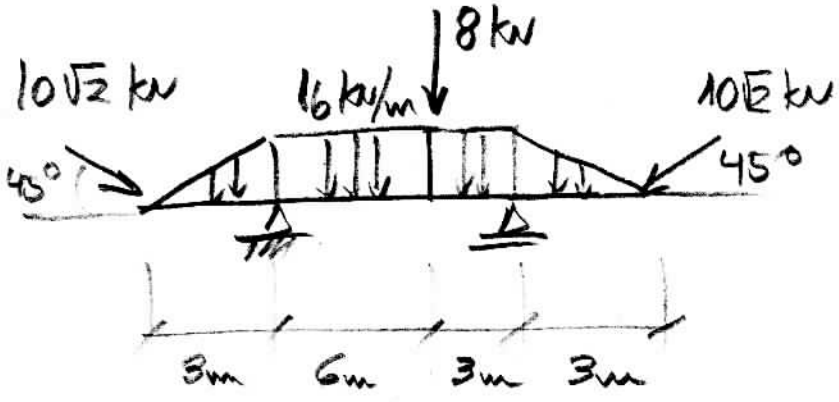
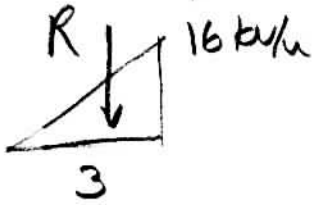
TE1-2.7



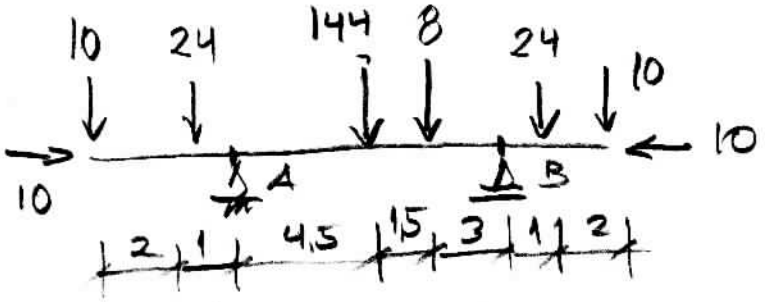
$10\sqrt{2} \times \cos 45° = 10\sqrt{2} \times \frac{\sqrt{2}}{2}$

$= 10$



$R = 16\,kN/m \times 3m \times \frac{1}{2} = 24\,kN$

$16\,kN/m \times 9m = 144\,kN$



$\circlearrowleft^{+} \quad \Sigma M_A = 0$

$144 \times 4,5 + 8 \times 6 + 24 \times 10$

$10 \times 12 - 24 \times 1 - 10 \times 3$

$-V_B \times 9 = 0$

$V_B = \frac{1}{9}(144 \times 4,5 + 48 + 240 + 120 - 24 - 30) = 111,33\,kN \uparrow$

$\Sigma V = 0 \qquad 111,33 - 10 - 24 - 144 - 8 - 24 - 10 + V_A = 0$

$V_A = 10 + 24 + 144 + 8 + 24 + 10 - 111,33 = 108,67\,kN \uparrow$

$\Sigma F_V = 0$

$H_A = 0$