

$$\sum F_y = 0$$

$$2 \cdot \frac{1}{2} + 1 \cdot \frac{1}{2} + 8 \cdot \frac{1}{2} = R_A + R_B$$

$$6.6 \cdot \frac{1}{2} + B \cdot \frac{1}{2} + 6.6 \cdot \frac{1}{2} = R_B$$

$$R_B = 22.75 \text{ kN}$$

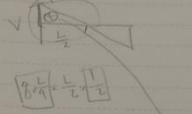
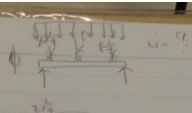
$$8 \cdot \frac{1}{2} + 1 \cdot \frac{1}{2} + 8 \cdot \frac{1}{2} = R_A + R_B$$

$$R_A = 22.75$$



$$S = \frac{M}{G} = \frac{0.52 \times 1000 \times 10^3}{174 \times 10^3}$$

$$= 413.85 \text{ N/m}^2$$



$$M_{max} = 9.44$$

