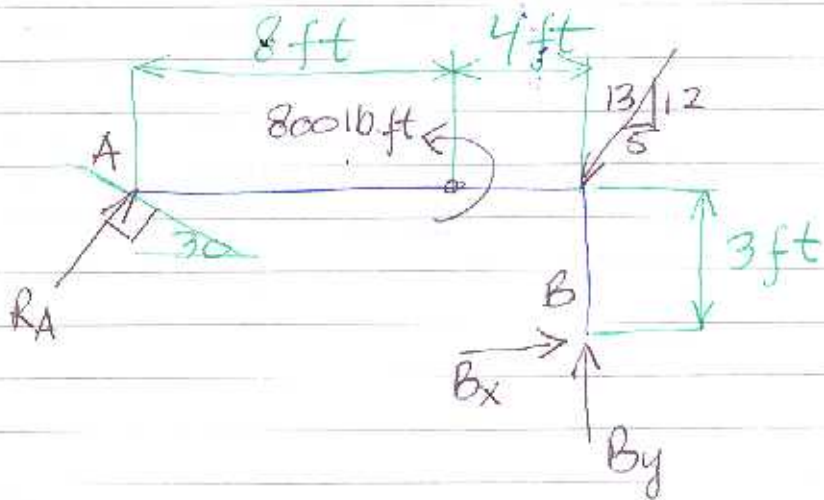


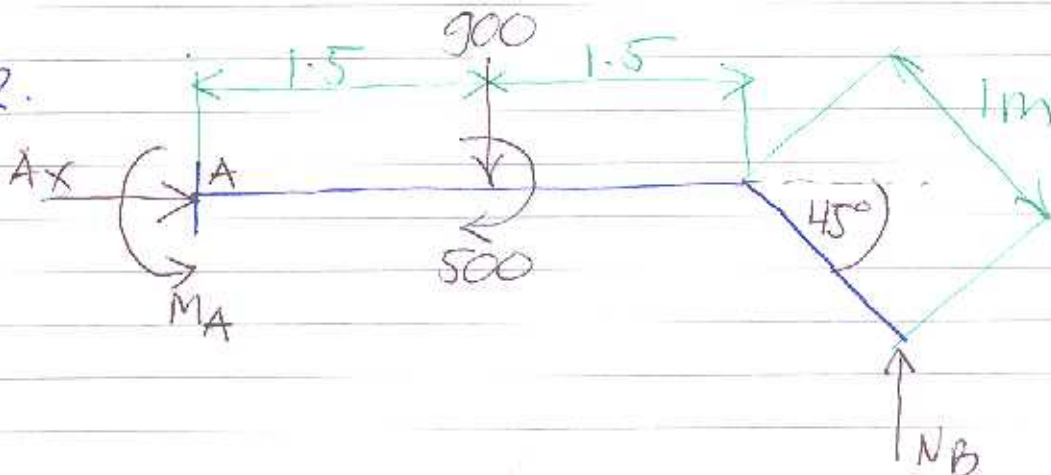
UCP 3, Senin 25 April 2016.

#1



20%

#2.



20%

$$\rightarrow \sum F_x = 0$$

$$A_x = 0 \quad \text{----- Ans}$$

$$\uparrow \sum F_y = 0$$

$$N_B - 900 = 0$$

$$N_B = 900 \text{ N} \quad \text{----- Ans}$$

20%

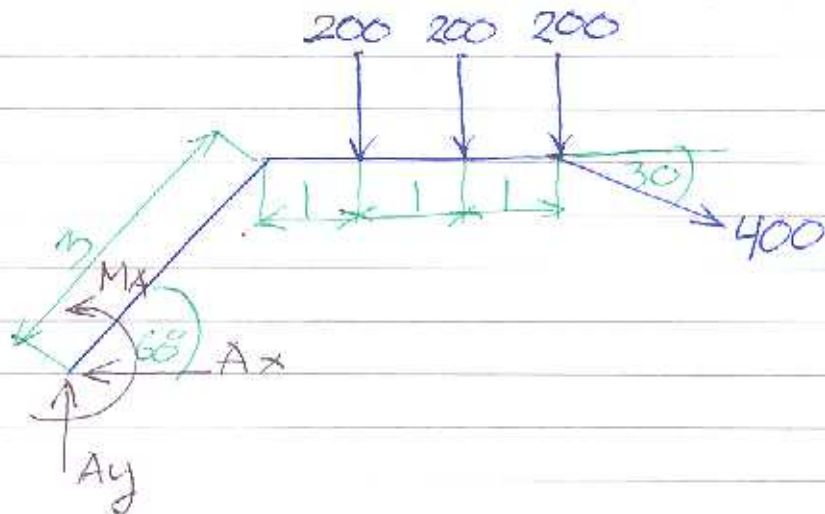
$$\curvearrow \sum M_A = 0$$

$$M_A - 900(1.5) - 500 + 900(3 + 1 \cos 45^\circ) = 0$$

$$M_A = -1486 \text{ Nm}$$

$$= 1.49 \text{ kNm} \quad \curvearrow \text{----- Ans.}$$

#3.



20%

$$\rightarrow \sum F_x = 0$$

$$400 \cos 30 - A_x = 0$$

$$A_x = 400 \cos 30$$

$$A_x = 346.4 \text{ N} \quad \text{--- Ans}$$

$$\uparrow \sum F_y = 0$$

$$A_y - 200(3) - 400 \sin 30 = 0$$

$$A_y = 200(3) + 400 \sin 30$$

$$A_y = 800 \text{ N} \quad \text{--- Ans}$$

20%

$$\curvearrowright \sum M_A = 0$$

$$M_A - 200(1 + 3 \cos 60) - 200(2 + 3 \cos 60) - 200(3 + 3 \cos 60) - 400(\cos 30)(3 \sin 60) - 400 \sin 30(3 + 3 \cos 60) = 0$$

$$M_A - 500 - 700 - 900 - 900 - 900 = 0$$

$$M_A = 3900 \text{ Nm} \quad \text{--- Ans}$$