Assignment No. 5

1.

Replace the forces of confile with a single force

8 40EM 80.56° $\frac{2}{x} = \cos 30^{\circ}$ x = 2.309 m

2.

$$M = 400 \sin 60 \times 150 + 320 \times 300$$

$$= 148 \, \text{N-m}$$

3.

$$\leq M_o = 6 \times 3 - 90 + 52$$

= -72 + 52 = -20 kN-m

$$d = \frac{120}{4} = 5m$$
 = 20 M/m

BONUS