## Solved exemmple with link

For the following beam draw N.F.D, S.F.D and B.M.D

SOL.
$\sum M_{1}=0$
$-f 3 \times 3+3 \times 3=0$
F3=3t
$\sum F x=0$

$-F 1 \cos \theta+F 2 \cos \theta=0$
$F 1=F 2$

1 t/m
$\sum F y=0$
$F 1 \sin \theta+F 2 \sin \theta+3-6=0$
$F 1=F 2=1.875$

$\operatorname{Sin} \theta=2 / 2.5=0.8$
$\operatorname{Cos} \theta=1.5 / 2.5=0.6$


