

## PCS 211 – Fall 2021 Tutorial Report Cover Page

## **Group's Students Info**

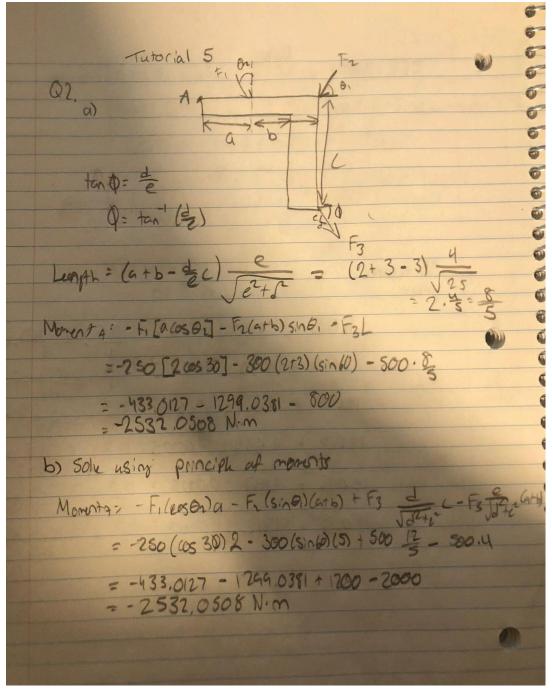
Student Full Name	Student # (Last 4 digits)
Anjelo	5972
Prem Patel	4998
Hamza Ejaz Malik	2545
Tanvir Jhita	0991

Tutorial Number :	5
Tutorial Date :	ov 9, 2021
Tutorial TA Namo:	Matt Riolocki

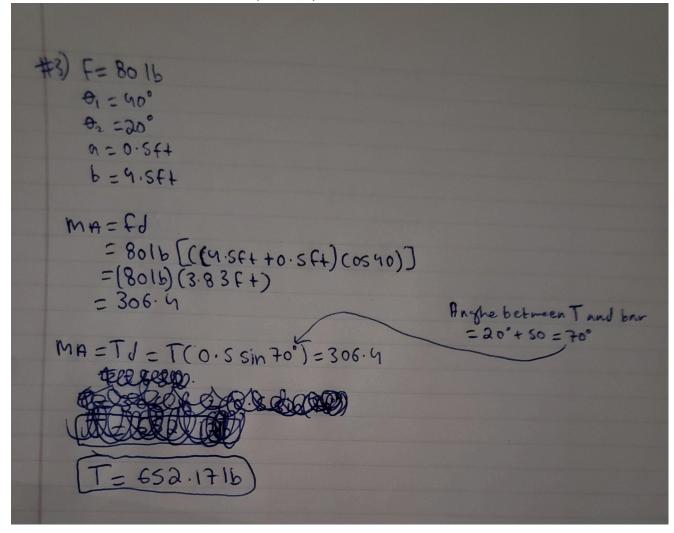


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Y.
$\vec{A} = 0\hat{i} + 0\hat{j} + 0\hat{k}$
$\vec{C} = 0.55\hat{1} + 0.4\hat{j} - 0.22\hat{k}$
DAC = (0.05-0)î + (0.4-0)î + (-0.2 -0)Ê
= D.55î + D.4ĵ - D.2 î
F'= 80 cos 30 = 69.28 N
$F_{x} = 69.28 \sin 40 = 44.5 \text{ m}$
7y = 69.28 cos 40 = 53.1 N
9= = -80 siu 30 = -40N
F = 44.57 + 53.13 - 40ê
MA = DAC X F
[i j k]
= 0.55 0.4 -0.2 = (-5.381+13.1] +  1.4/c) N.m
44.5 53.1 -40

## Ryerson University

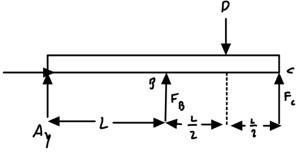
$$F_{0} + F_{1} + F_{2} + F_{3} = 0$$

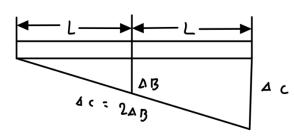
$$F_{0} + F_{1} + F_{2} + F_{3} = 0$$

$$F_{0} + F_{1} + F_{2} = 0$$

$$F_{0} + F_{3} + F_{4} = 0$$

$$F_{0} + F_{3} = 0$$





$$F_{c} = 2F_{g}$$
 $F_{B} + 2F_{c} = 1.5P$ 
 $F_{B} + (2)(2F_{B}) = 1.5P$ 
 $5F_{B} = 1.5P$ 
 $5F_{B} = 1.5P$ 
 $5F_{B} = 0.3P$ 
 $7F_{B} = 0.3P$ 

$$F_{c} = 2F_{B}$$

$$= (2)(0.3P)$$

$$= 0.6P$$

$$\Delta c = (2)(0.3P)$$
 $4$ 
 $\Delta C = 0.6P$