

Version 1

$W =$	15 kN	
$A_x =$	5.2 kN	\leftarrow
$A_y =$	6.0 kN	\uparrow
$A =$	7.94 kN	at 49.1°

$F_R = 850 \text{ N} \uparrow$
 $x \text{ from P} = -3.24 \text{ m}$

FBD of bar: force at 60 deg from horiz at left, force at α from vert at right
 $\alpha = 52.41$ degrees

AB =	50 kN (C)
BC =	30 kN (C)
BG =	40 kN (T)

T=	255.469 i	-	613.1 j	+	817.5 k	N
A=	1073.0 j	-	817.5 k		N	
B=	-255.5 i	+	766.4 j		N	

(a) $F_R =$	5.23 kN \searrow	25.98	$M_R =$	6.016 kNm CW
(b) $ T_B =$	10.74 kN \swarrow			
$A_x =$	3.90 kN \rightarrow		$A_y =$	8.74 kN \uparrow
or $A =$	9.56 N			65.97 $^\circ$ /