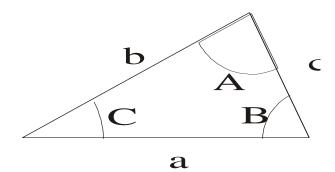
PROBLEM SET 1 – A

ENG 1440	Introduction to Statics	AO2: Dr. J. Frye	
PRINT NAME:			_
STUDENT NO:			_



Part#1 - GRAPHICAL SOLUTION

For the triangle shown and for the data given, FILL IN THE GAPS USING A GRAPHICAL SOLUTION. Estimate lengths to the nearest meter and angles to the nearest degree. (Show your work on separate sheets of grid paper and state the scale that you have used.)

	a (m)	b (m)	c (m)	A°	B°	Co
i	12				45	20
ii	6		9			60
iii(a)	12	9			30	
iii(b)	12	9			30	
iv	6	8	12			

Part#2 – TRIGONOMETRY SOLUTION

For the triangle shown using the <u>Sine and Cosine Rules</u> and for the data given, FILL IN THE GAPS. Give answers to <u>THREE decimals accuracy</u>. (You do not have to include your work for this part.)

	a (m)	b (m)	c (m)	$\mathbf{A}^{\mathbf{o}}$	B°	Co
i	12				45	20
ii	6		9			60
iii(a)	12	9			30	
iii(b)	12	9			30	
iv	6	8	12			