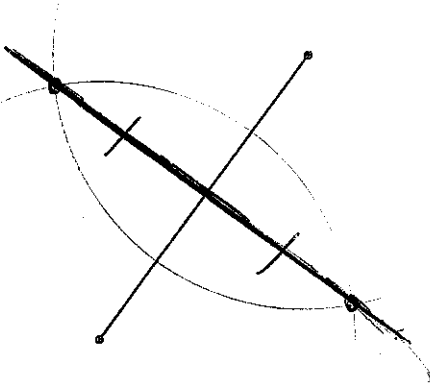
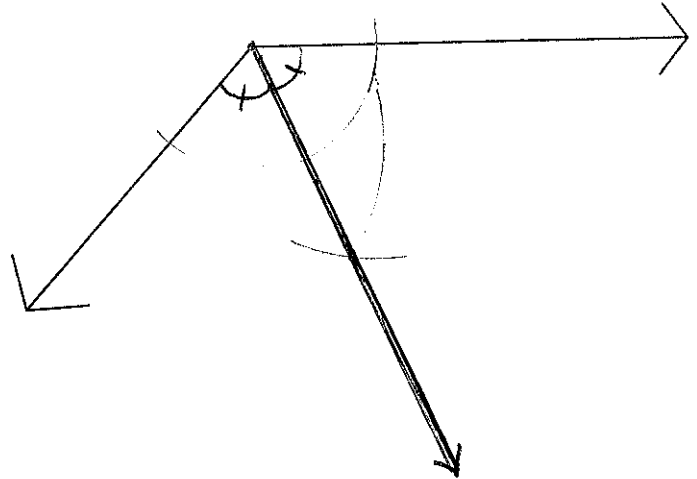


1. Use a compass and straightedge to construct each of the following:

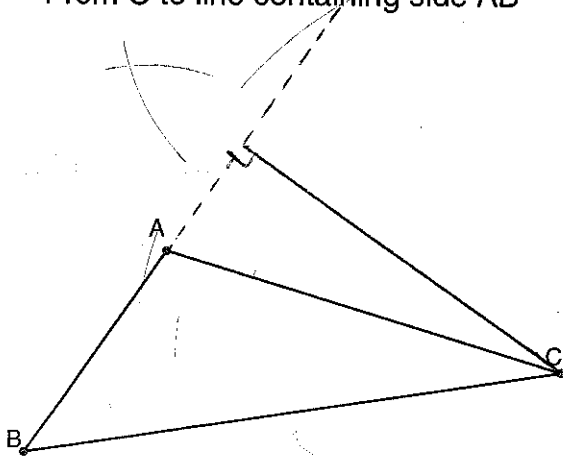
A. Bisect this line segment



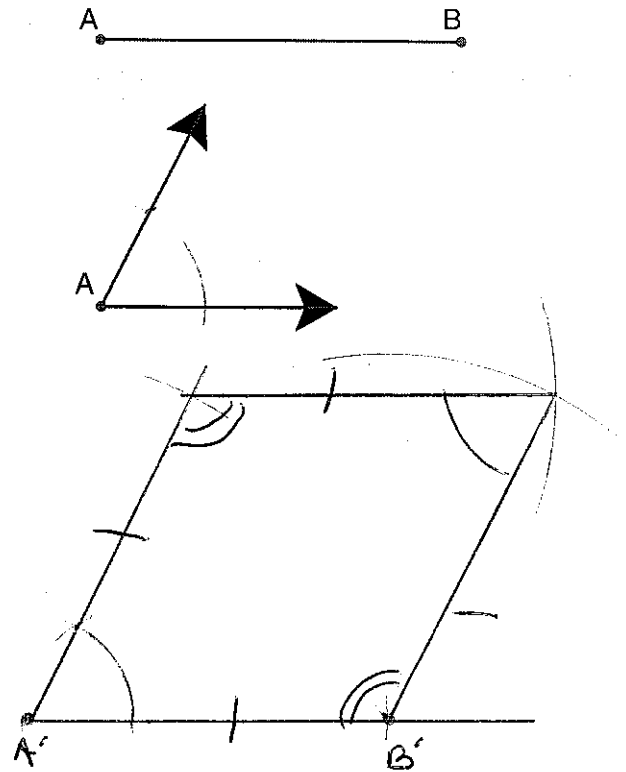
B. Bisect this angle



C. Construct the altitude in  $\triangle ABC$   
From C to line containing side AB



D. Construct a rhombus given the following  
side and angle measures



2. Fill in the following chart:

		truth value
	If a figure is a square, then it is a parallelogram.	T
Converse	If // ogram Then square	F
Inverse	If not square then not // ogram	F
Contrapositive	If not // ogram then not square	T
Biconditional	square iff // ogram	F

3. Construct a truth table for each of the following expressions:

a)  $(P \vee \sim Q) \wedge (\sim P \wedge Q)$

ONLY 2 VARIABLES

P	Q	R	$P \vee \sim Q$	$\wedge$	$\sim P \wedge Q$
T	T	T	T	F	F
T	T	F			
T	F	T	T	F	F
T	F	F			
F	T	T	F	F	T
F	T	F			
F	F	T	T	F	F
F	F	F			

FINAL ANSWER

b)  $(P \rightarrow \sim Q) \vee (\sim P \leftrightarrow Q)$

ONLY 2 VARIABLES

P	Q	R	$P \rightarrow \sim Q$	$\sim P \leftrightarrow Q$	$\vee$
T	T	T	F	F	F
T	T	F			
T	F	T	T	T	T
T	F	F			
F	T	T	T	T	T
F	T	F			
F	F	T	T	F	T
F	F	F			

FINAL ANSWER

4. Using a two column proof, show that If  $26u + 4(12u - 5) = 128$ , then  $u = 2$

STATEMENTS

JUSTIFICATIONS

1.  $26u + 4(12u - 5) = 128$
2.  $26u + 48u - 20 = 128$
3.  $74u - 20 = 128$
4.  $74u = 148$
5.  $u = 2$

1. GIVEN
2. DISTRIBUTION PROP. OF  $\otimes$  OVER  $\ominus$
3. COMBINE LIKE TERMS
4. ADDITION PROPERTY OF EQUALITY
5. DIVISION PROPERTY OF EQUALITY

Q.E.D

HMM... I WONDER WHAT THIS MEANS  $\cup$