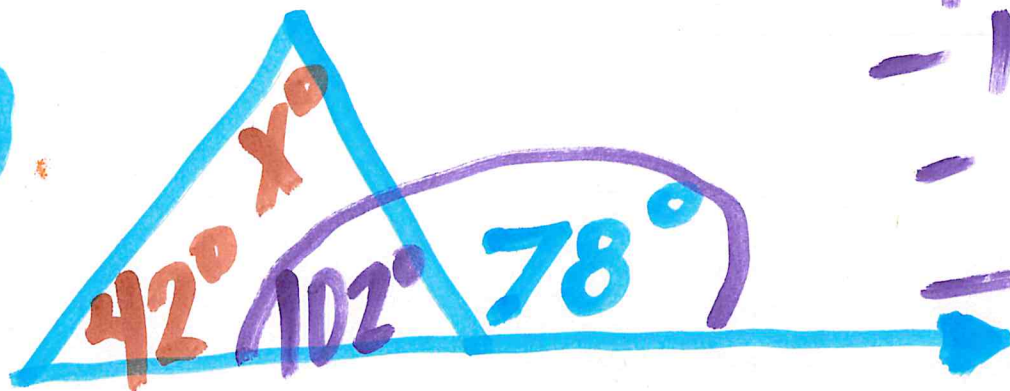


# 8/30 Lesson 9: Writing Proofs

ie1



$$\begin{array}{r} 71 \\ -180 \\ -102 \\ -42 \\ \hline \end{array}$$

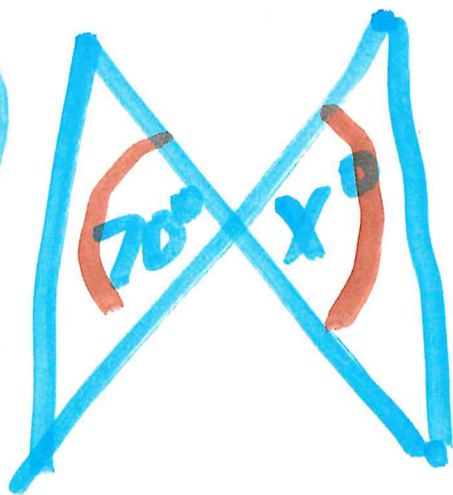
6

$$\underline{X = 36^\circ}$$

Reason = Supp  $\angle$ 's  
ext  $\angle$ 's

$$\begin{array}{r} 180 \\ -144 \\ \hline \end{array}$$

ie2

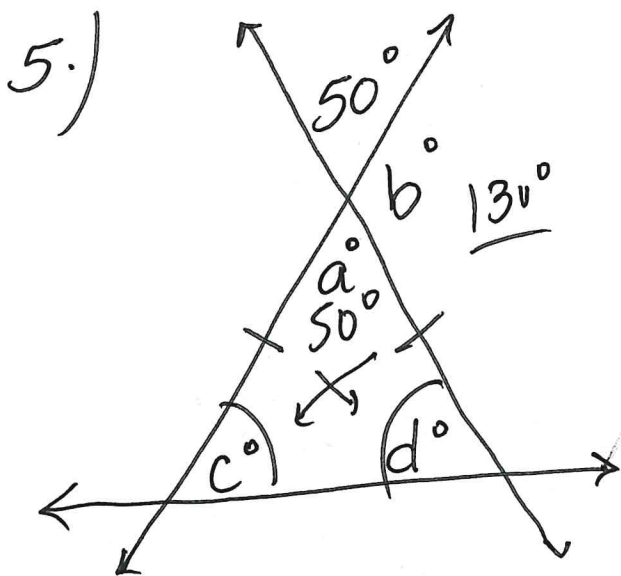


$$x = 70^\circ$$

Reason = Vertical

Lesson 9 HWK  
pgs. 78-79 #1-5 all

First Last Name \_\_\_\_\_  
Hour \_\_\_\_\_



$$a^\circ = 50^\circ$$

Reason = Vertical  $\angle$ 's

$$b^\circ = 130^\circ$$

Reason = Supp.  $\angle$ 's

$$c^\circ = 65^\circ$$

Reason = Isosc.  $\Delta$ 's

$$d^\circ = 65^\circ$$

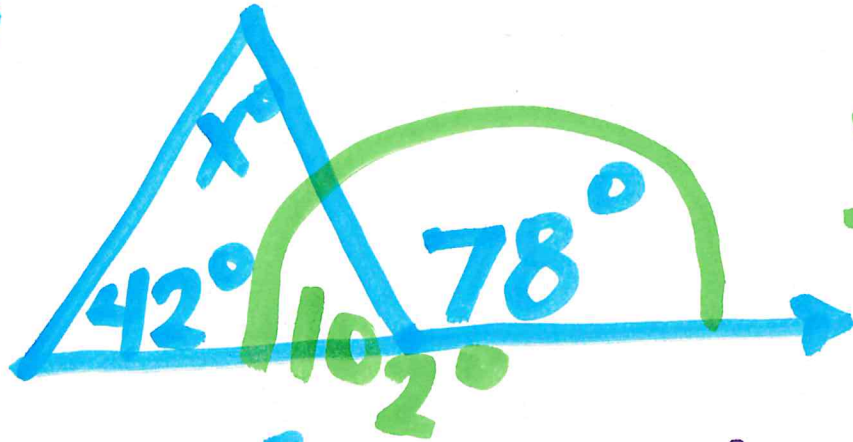
Reason = Isosc.  $\Delta$ 's

$$\begin{array}{r} 180 \\ - 50 \\ \hline 130 \end{array}$$

$$2 \overline{) 130} \quad 65^\circ$$

# 8/30 Lesson 9 Writing Proofs

ie1



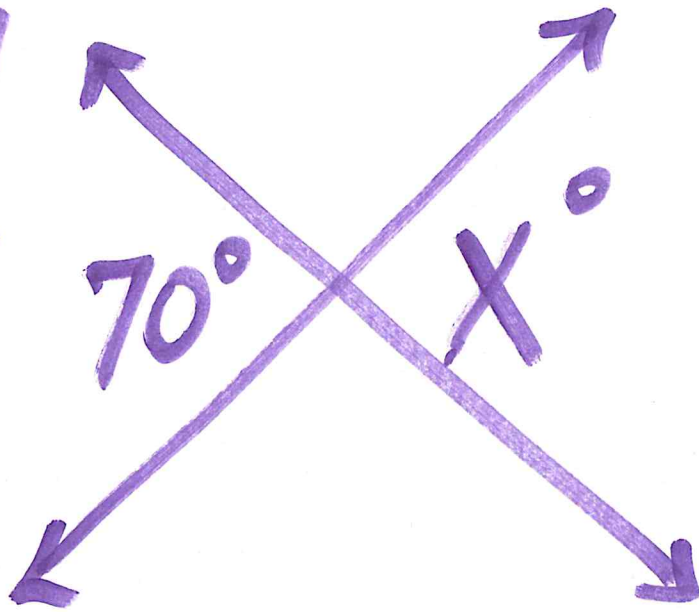
$$\begin{array}{r} 180 \\ - 78 \\ \hline 102^\circ \end{array}$$

$$\begin{array}{r} 180 \\ - 144 \\ \hline \end{array} \leftarrow x^\circ = 180 - (102 + 42) = 36^\circ$$

Reason =  $\Delta = 180^\circ$

①

ie2



$$X^\circ = 70^\circ$$

Reason = Vert.  $\angle$ 's

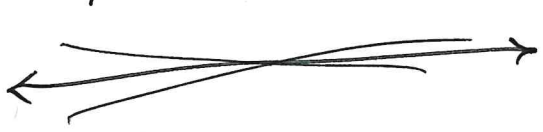


# Lesson 9 HWK

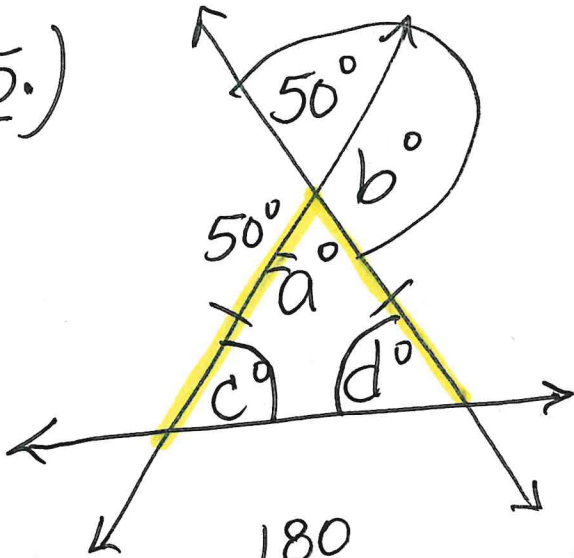
First Last Name \_\_\_\_\_  
Hour \_\_\_\_\_

pgs. 78-79

#1-5  
all



5.)



$$a^\circ = 50^\circ$$

Reason = Vertical to given

$$b^\circ = 180 - 50 = 130^\circ$$

Reason = Supplementaries to given  $\angle$

$$c^\circ = \frac{180}{2} = 65^\circ$$

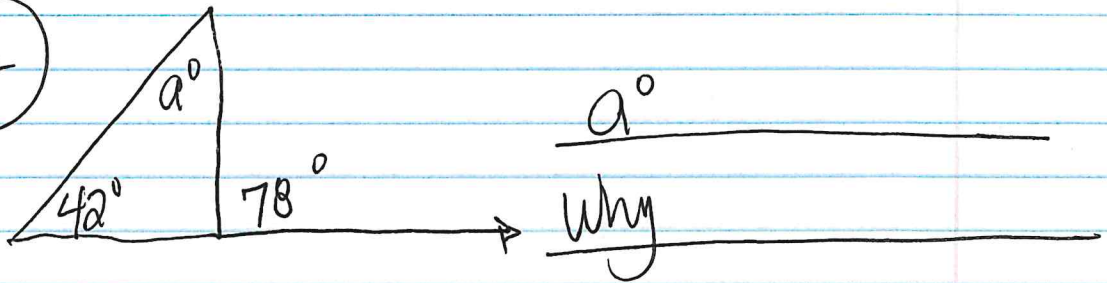
$$d = 65^\circ$$

Reason = Isos  $\Delta$

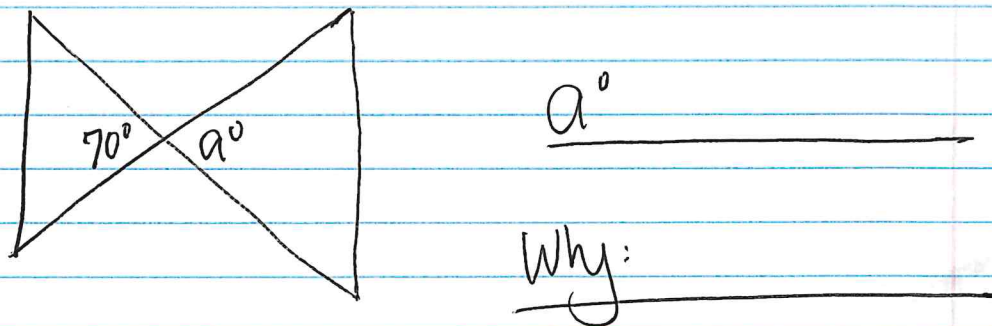
Reason = Isosc  $\Delta$ .

# Lesson 9 Unknown Angle Proofs - Writing Proofs

Q1

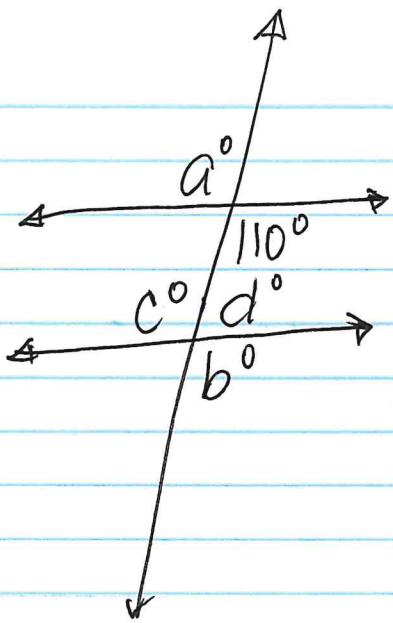


Q2



Vertical angles are across  
from each other & have same  
( $\cong$ ) measure

ie3



a°

Why

b°

Why

c°

d°

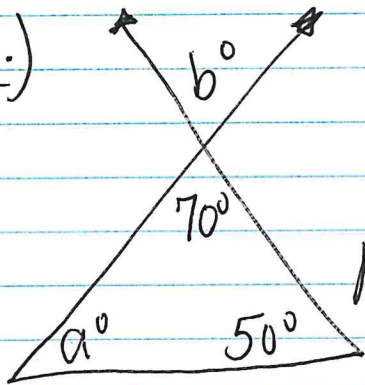
Why

Why



Lesson 9 HWK pgs. 78-79 #1-5 all

1.)



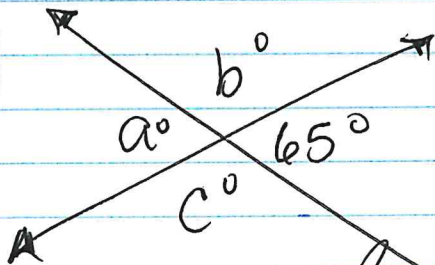
$a^\circ$

Reason why =

$b^\circ$

Reason why =

2.)



$a^\circ$

Reason why =

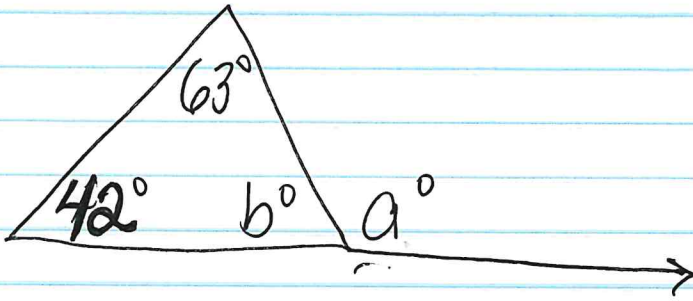
$b^\circ$

Reason why =

$c^\circ$

Reason why =

3.)



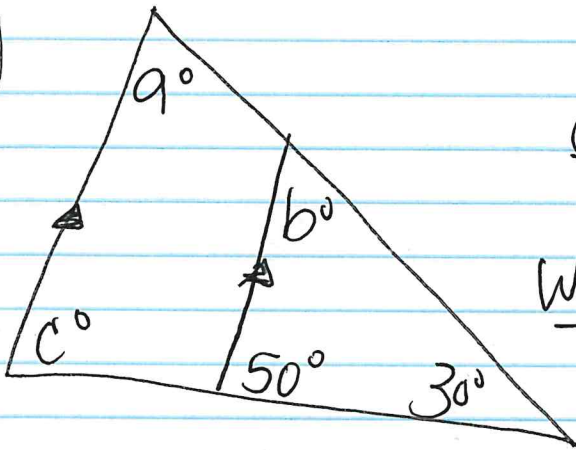
a°

b°

Why

Why

4.)



a°

Why

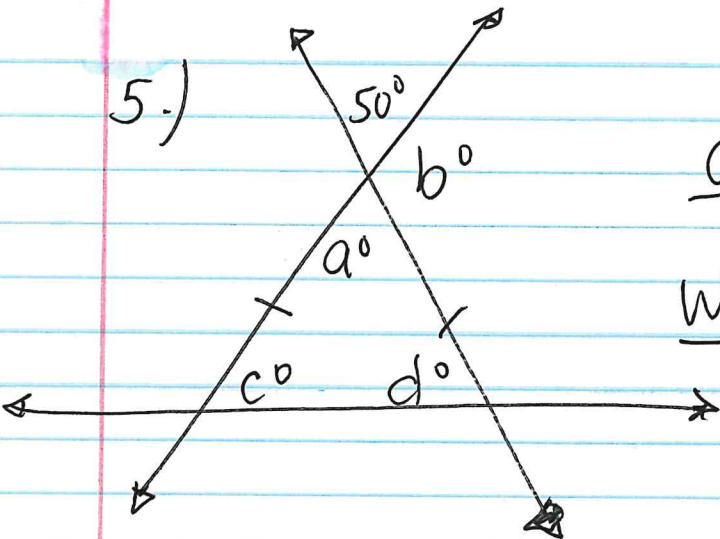
b°

c°

Why

Why

5.)



a°

Why

b°

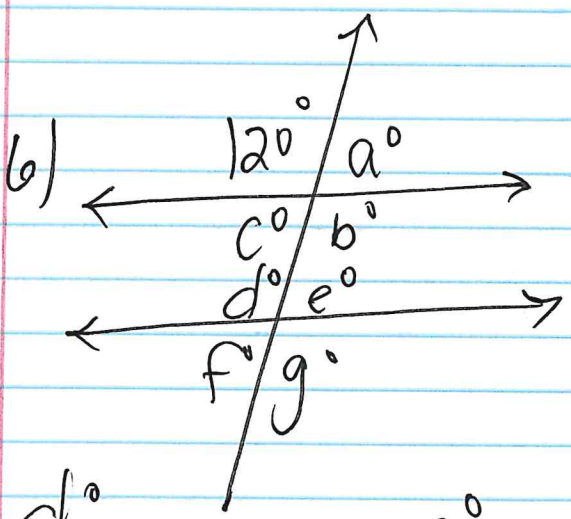
c°

Why

Why

d°

Why



a°

b°

c°

d°

e°

f°