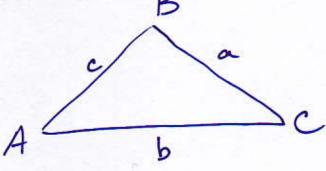
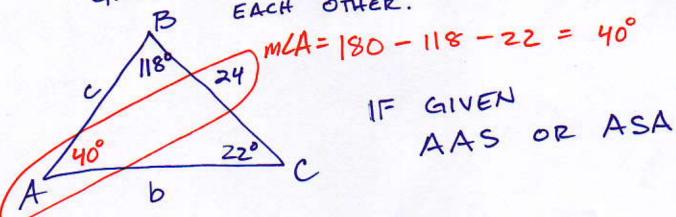
SEC 4.1 LAW OF SINES FOR ANY TRIANGLE C



1. LAW OF SINES

2. WHEN TO USE THE LAW OF SINES?

GIVEN SIDE THAT ARE ACROSS FROM B EACH OTHER.



3. SOLVE THE TRIANGLE : FIND ALL MISSING ANGLES AND SIDES.

$$M1551NG$$
 ANGLES 1.10
 $MLA = 40^{\circ}$ C SHN40 = $\frac{2451N}{24}$ E SIN40
 $C = 14$ b SIN40 = $\frac{2451N}{24}$ IS IN 118
 24 E SIN 118
 24 E SIN 118

4. SSA (AMBIGUOUS CASE) h = b.SINA ach (NO TRIANGLE) a=h (ONE TRIANGLE) RIGHT A.

SER. PROB #17

17.
$$\angle A = 30^{\circ}$$
 $a = 1.0$
 $b = 2.4$
AMBIGUOUS CASE

S

9.
$$\angle A = 33.8^{\circ}$$
 A $\angle C = 98.5^{\circ}$ A $\angle C = 102$ 5 A $\angle A = 102$ $\angle A = 1$

$$LB = 180 - 33.8 - 98.5$$

$$LB = 47.7$$

$$a SIN 98.5 = 10^{2} SIN 33.8$$

$$a SIN 98.5 = \infty SIN 98.5$$

$$0 = 6.57.4$$