LAW OF SINES

TEXT: 8.1

LAST NAME	FIRST NAME	DATE

ROUND YOUR ANSWERS TO NO FEWER THAN 3 SIGNIFICANT DIGITS.

1 (3 points). Solve the triangle with $A = 79°$, $B = 83°$, $a = 9$ cm.

$C =$ $b =$ $c =$

2 (5 points)**.** For each given set of values, make a sketch and find how many different triangles can satisfy it. **Do NOT solve the triangle.**

(a) $C = \pi/3$, $a = 2\sqrt{2}$, $c = \sqrt{6}$

(b) $A = 20°$, $b = 45$, $a = 15$

(c) $B = 34°$, $b = 2$, $c = 3$

(d) $A = 5\pi/7$, $c = 8$, $a = 20$

(e) $C = 71°$, $b = 6$, $c = 6$

3 (3 points)**.** Solve the triangle with $A = 47°$, $c = 20$ m, $a = 16$ m.

$B_1 =$ $C_1 =$ $b_1 =$

$B_2 =$ $C_2 =$ $b_2 =$

4 (3 points). Solve the triangle with $A = 52^\circ$, $C = 77^\circ$, $b = 10$ in.

$B =$ $a =$ $c =$