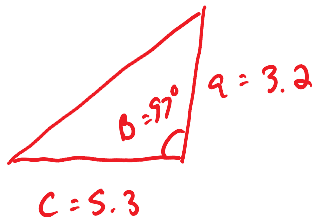


## Section 8.2: cont'd

Thursday, March 05, 2015  
11:28 AM

Solve the triangle with  $a = 3.2$ ,  $B = 97^\circ$ , and  $c = 5.3$ .



$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$= (3.2)^2 + (5.3)^2 - 2(3.2)(5.3) \cos 97^\circ$$

$$b = 6.5164$$

$$= 6.5$$

$$\frac{\sin C}{c} = \frac{\sin B}{b}$$

$$\sin C = \frac{c \sin B}{b} = \frac{5.3 \sin 97^\circ}{6.5164}$$

$$C = 53.8^\circ$$

$$= 54^\circ$$

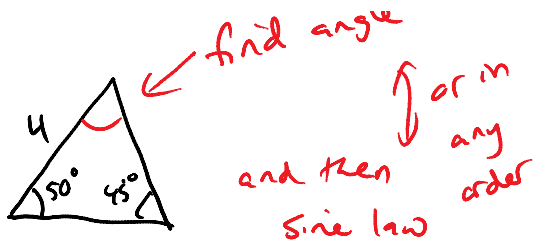
$$A = 180^\circ - B - C$$

$$= 29.2^\circ = 29^\circ$$

$$\underline{A = 29^\circ, C = 54^\circ, b = 6.5}$$

for the following triangles, what would be your first step or steps?

↙ find angle  
↑ or in



and then  
Sine law  
or in  
any  
order

