WARMUP

Which info are you given in each picture?

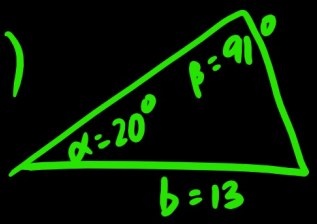
A) ASA

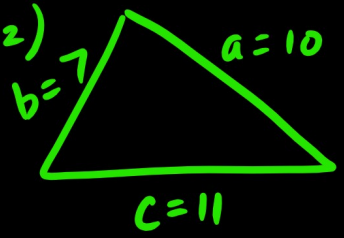
B) SAS

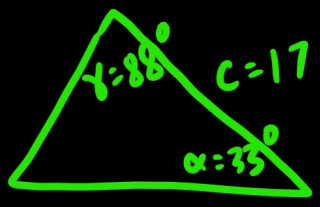
C) SSS

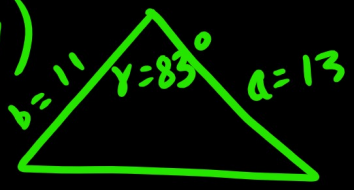
D) AAS

E) SSA

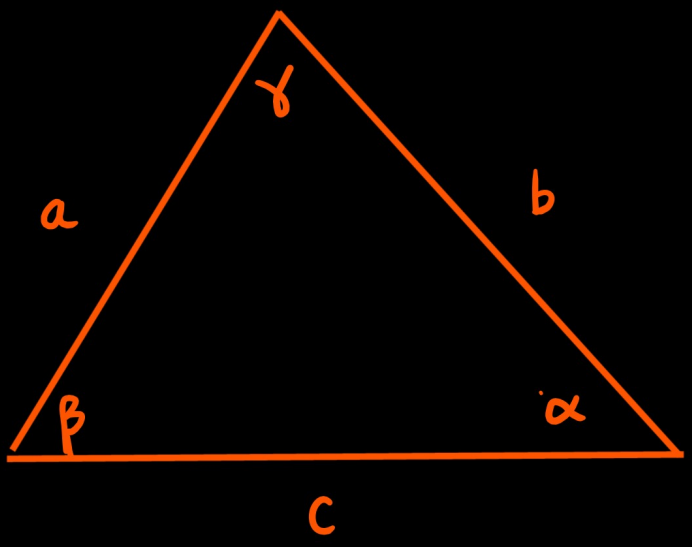
1) 

2) 

3) 

4) 

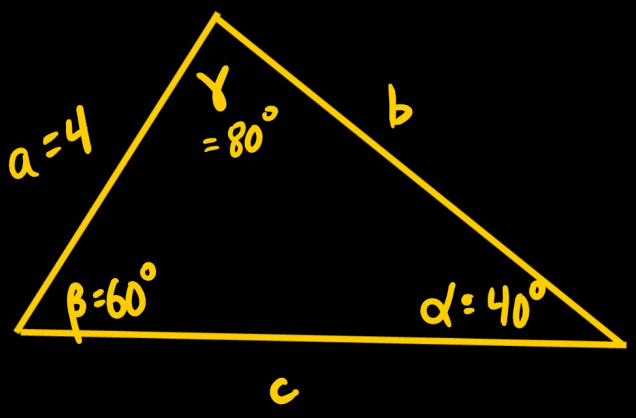
Section 7.2 The Law of Sines



$$\frac{\sin\alpha}{a} = \frac{\sin\beta}{b} = \frac{\sin\gamma}{c}$$

Use Law of Sines for AAS, ASA, and SSA

ex: Solve the triangle: $\alpha = 40^\circ$, $\beta = 60^\circ$, $a = 4$



$\gamma = 80^\circ$

$c = 6.1$

$b = 5.4$

$\gamma = 180^\circ - 60^\circ - 40^\circ = 80^\circ$

$\frac{\sin 40^\circ}{4} = \frac{\sin 80^\circ}{c}$

$c \sin 40^\circ = 4 \sin 80^\circ$

$\frac{c \sin 40^\circ}{\sin 40^\circ} = \frac{4 \sin 80^\circ}{\sin 40^\circ}$

$c = 6.1$

$\frac{\sin 40^\circ}{4} = \frac{\sin 60^\circ}{b}$

$b \sin 40^\circ = 4 \sin 60^\circ$

$\frac{b \sin 40^\circ}{\sin 40^\circ} = \frac{4 \sin 60^\circ}{\sin 40^\circ}$

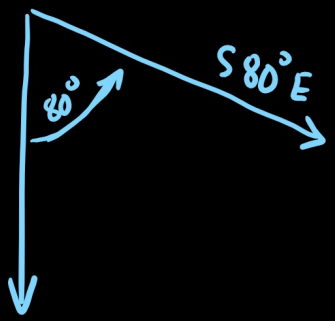
4 * sin(60)/sin(40)

$b = 5.4$

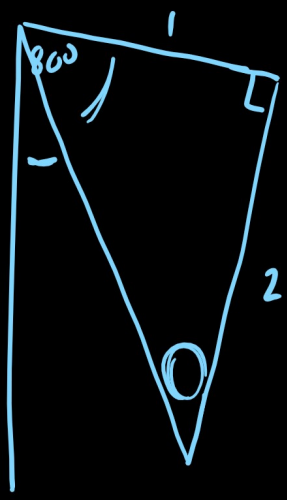
p547 1-13 odd

$\frac{5}{11} = \frac{17}{x}$

S 80° E



$\frac{11 \cdot 17}{5} = x$


1
60°
2