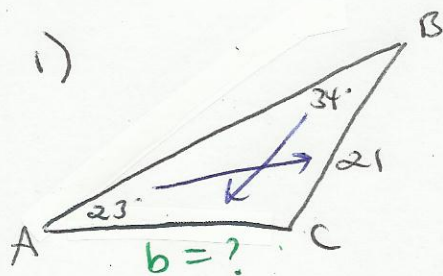


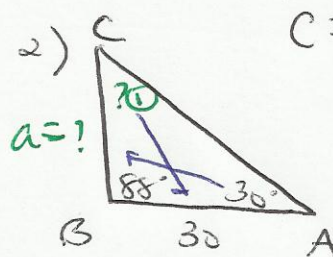
Adv Functions - Law of Sines WS



$$\frac{21}{\sin 23} \neq \frac{b}{\sin 34}$$

$$\frac{b \sin 23}{\sin 23} = \frac{21 \sin 34}{\sin 23}$$

$$\boxed{b = 30.1}$$



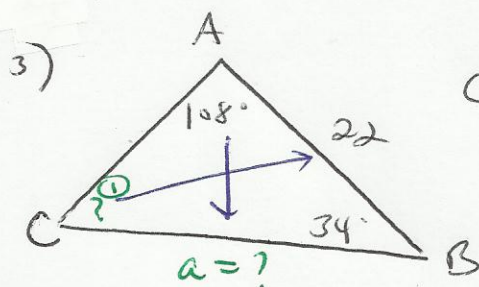
$$C = 180 - 88 - 30$$

$$C = 62^\circ$$

$$\frac{30}{\sin 62} \neq \frac{a}{\sin 30}$$

$$\frac{a \sin 62}{\sin 62} = \frac{30 \sin 30}{\sin 62}$$

$$\boxed{a = 17}$$



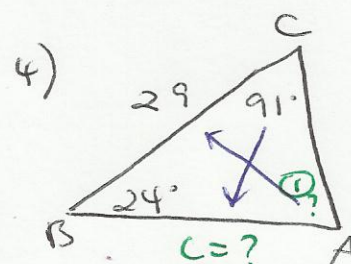
$$C = 180 - 108 - 34$$

$$C = 38^\circ$$

$$\frac{22}{\sin 38} \neq \frac{a}{\sin 108}$$

$$\frac{a \sin 38}{\sin 38} = \frac{22 \sin 108}{\sin 38}$$

$$\boxed{a = 34}$$



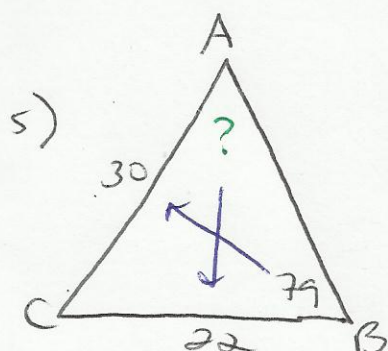
$$A = 180 - 91 - 24$$

$$A = 65^\circ$$

$$\frac{29}{\sin 65} \neq \frac{c}{\sin 91}$$

$$\frac{c \sin 65}{\sin 65} = \frac{29 \sin 91}{\sin 65}$$

$$\boxed{c = 32}$$

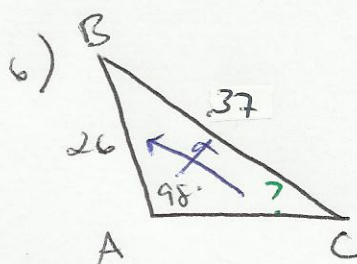


$$\frac{30}{\sin 79} \neq \frac{22}{\sin A}$$

$$\frac{30 \sin A}{\sin 79} = \frac{22 \sin 79}{30}$$

$$A = \sin^{-1} \left(\frac{22 \sin 79}{30} \right)$$

$$\boxed{A = 46^\circ}$$

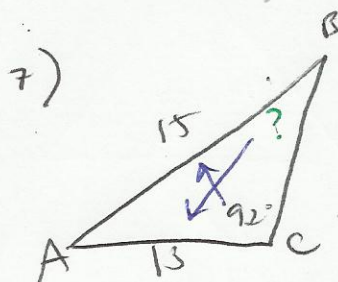


$$\frac{37}{\sin 98} \neq \frac{26}{\sin C}$$

$$\frac{37 \sin C}{\sin 98} = \frac{26 \sin 98}{37}$$

$$C = \sin^{-1} \left(\frac{26 \sin 98}{37} \right)$$

$$\boxed{C = 44.1^\circ}$$

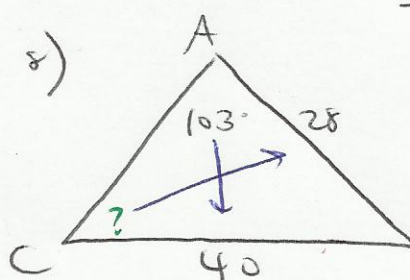


$$\frac{15}{\sin 92} \neq \frac{13}{\sin B}$$

$$\frac{15 \sin B}{\sin 92} = \frac{13 \sin 92}{15}$$

$$B = \sin^{-1} \left(\frac{13 \sin 92}{15} \right)$$

$$\boxed{B = 60^\circ}$$

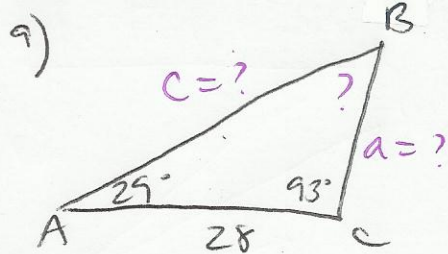


$$\frac{40}{\sin 103} \neq \frac{28}{\sin C}$$

$$\frac{40 \sin C}{\sin 103} = \frac{28 \sin 103}{40}$$

$$C = \sin^{-1} \left(\frac{28 \sin 103}{40} \right)$$

$$\boxed{C = 43^\circ}$$



$$B = 180 - 29 - 93$$

$$\boxed{B = 58^\circ}$$

$$\frac{28}{\sin 58} \neq \frac{a}{\sin 29}$$

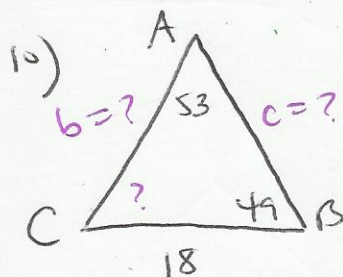
$$\frac{a \sin 58}{\sin 58} = \frac{28 \sin 29}{\sin 58}$$

$$\boxed{a = 16}$$

$$\frac{28}{\sin 58} \neq \frac{c}{\sin 93}$$

$$\frac{c \sin 58}{\sin 58} = \frac{28 \sin 93}{\sin 58}$$

$$\boxed{C = 33}$$



$$C = 180 - 53 - 49$$

$$\boxed{C = 78^\circ}$$

$$\frac{18}{\sin 53} \neq \frac{b}{\sin 49}$$

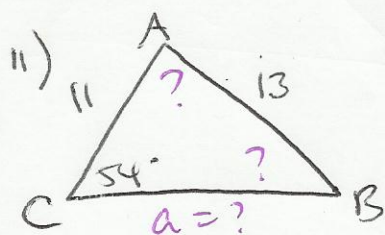
$$\frac{b \sin 53}{\sin 53} = \frac{18 \sin 49}{\sin 53}$$

$$\boxed{b = 17}$$

$$\frac{18}{\sin 53} = \frac{c}{\sin 78}$$

$$\frac{c \sin 53}{\sin 53} = \frac{18 \sin 78}{\sin 53}$$

$$\boxed{C = 22}$$



$$\frac{13}{\sin 54} \neq \frac{11}{\sin B}$$

$$\frac{13 \sin B}{13} = \frac{11 \sin 54}{13}$$

$$B = \sin^{-1} \left(\frac{11 \sin 54}{13} \right)$$

$$\boxed{B = 43.2^\circ}$$

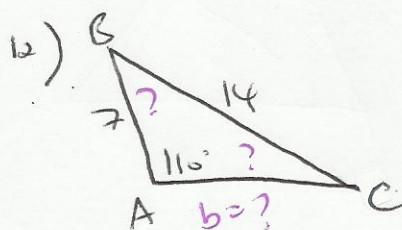
$$A = 180 - 54 - 43.2$$

$$\boxed{A = 82.8}$$

$$\frac{13}{\sin 54} \neq \frac{a}{\sin 82.8}$$

$$\frac{a \sin 54}{\sin 54} = \frac{13 \sin 82.8}{\sin 54}$$

$$\boxed{a = 15.9}$$



$$\frac{14}{\sin 110} \neq \frac{7}{\sin C}$$

$$\frac{14 \sin C}{14} = \frac{7 \sin 110}{14}$$

$$C = \sin^{-1} \left(\frac{7 \sin 110}{14} \right)$$

$$\boxed{C = 28^\circ}$$

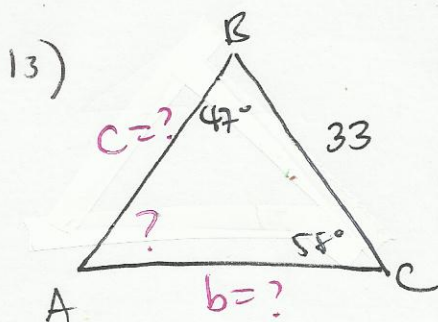
$$B = 180 - 110 - 28$$

$$\boxed{B = 42^\circ}$$

$$\frac{14}{\sin 110} \neq \frac{b}{\sin 42}$$

$$\frac{b \sin 110}{\sin 110} = \frac{14 \sin 42}{\sin 110}$$

$$\boxed{b = 10}$$



$$A = 180 - 47 - 58$$

$$\boxed{A = 75^\circ}$$

$$\frac{33}{\sin 75} \neq \frac{b}{\sin 47}$$

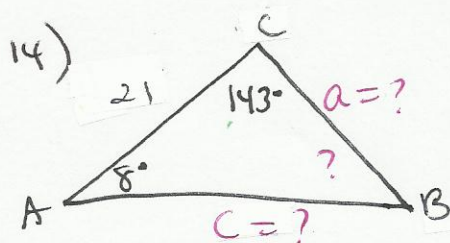
$$\frac{b \sin 75}{\sin 75} = \frac{33 \sin 47}{\sin 75}$$

$$\boxed{b = 25}$$

$$\frac{33}{\sin 75} \neq \frac{c}{\sin 58}$$

$$\frac{c \sin 75}{\sin 75} = \frac{33 \sin 58}{\sin 75}$$

$$\boxed{C = 29}$$



$$B = 180 - 143 - 8$$

$$\boxed{B = 29^\circ}$$

$$\frac{21}{\sin 29} \neq \frac{a}{\sin 8}$$

$$\frac{a \sin 29}{\sin 29} = \frac{21 \sin 8}{\sin 29}$$

$$\boxed{a = 6}$$

$$\frac{21}{\sin 29} = \frac{c}{\sin 143}$$

$$\frac{c \sin 29}{\sin 29} = \frac{21 \sin 143}{\sin 29}$$

$$\boxed{C = 26.1}$$

$$\textcircled{2} \theta = 180 - 40.9$$

$\theta = 139.1$