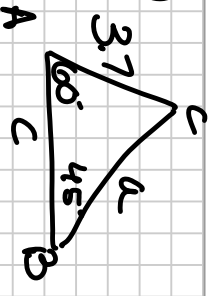


5.5 p. 484 #1, 4, 5, 8, 13-16, 38, 45

Note Title

1/14/2014

①



$$m\angle C = 75^\circ$$

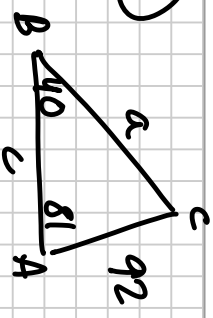
$$\frac{\sin 60^\circ}{a} = \frac{\sin 45^\circ}{3.7}$$

$$a = 4.5$$

$$\frac{\sin 75^\circ}{c} = \frac{\sin 45^\circ}{3.7}$$

$$c = 5.1$$

④



$$m\angle C = 59^\circ$$

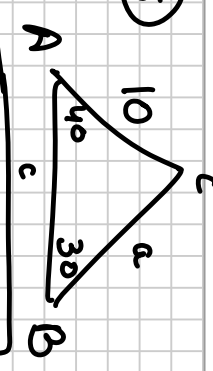
$$\frac{\sin 81^\circ}{a} = \frac{\sin 40^\circ}{40}$$

$$a = 141.4$$

$$\frac{\sin 59^\circ}{c} = \frac{\sin 40^\circ}{40}$$

$$c = 122.7$$

⑤



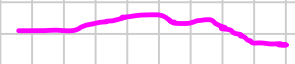
$$m\angle A = 110^\circ$$

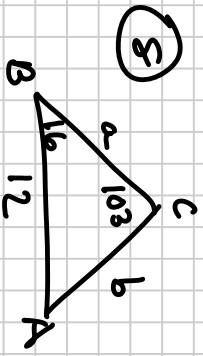
$$\frac{\sin 40^\circ}{a} = \frac{\sin 30^\circ}{10}$$

$$a = 12.9$$

$$\frac{\sin 110^\circ}{c} = \frac{\sin 30^\circ}{10}$$

$$c = 18.8$$





$$m\angle A = 61^\circ$$

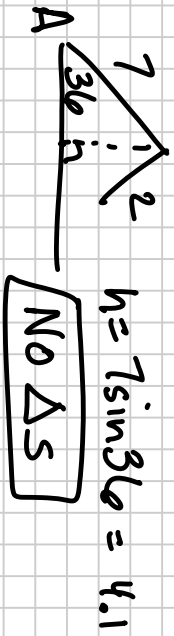
$$\frac{\sin 116^\circ}{b} = \frac{\sin 103^\circ}{12}$$

$$b = 3.4$$

$$\frac{\sin 61^\circ}{a} = \frac{\sin 103^\circ}{12}$$

$$a = 10.8$$

(13)



$$h = 7 \sin 36^\circ = 4.1$$

No Δ s

(14)



1 Δ

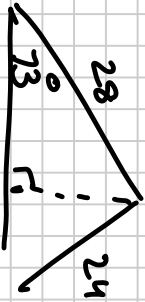
(15)



$$h = 17 \sin 36^\circ = 10$$

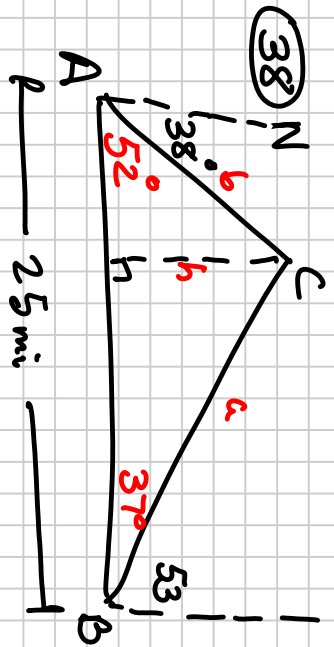
2 Δ s

(16)



$$h = 28 \sin 73^\circ = 26.8$$

No Δ s



$$m\angle C = 91^\circ$$

$$\frac{\sin 52^\circ}{a} = \frac{\sin 91^\circ}{25}$$

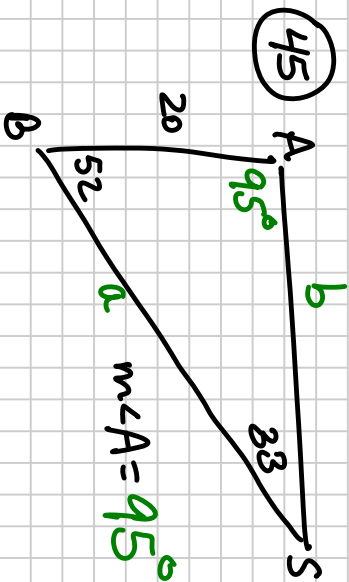
$$a = 19.7 \text{ mi}$$

$$\frac{\sin 37^\circ}{b} = \frac{\sin 91^\circ}{25}$$

$$b = 15.0 \text{ mi}$$

$$h = 15.0 \sin 52^\circ$$

$$h = 11.9 \text{ mi}$$



$$\frac{\sin 95^\circ}{a} = \frac{\sin 33^\circ}{20}$$

$$a = 36.6 \text{ mi}$$

$$\frac{\sin 52^\circ}{b} = \frac{\sin 33^\circ}{20}$$

$$b = 28.9 \text{ mi}$$