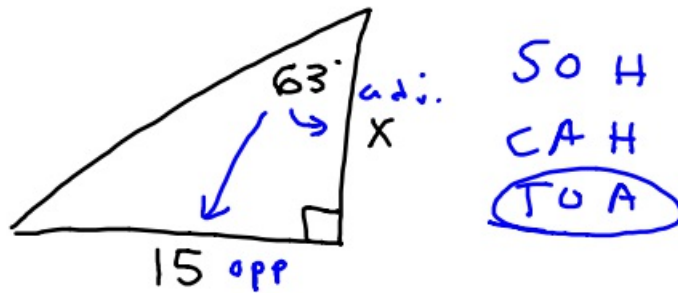


2-7-18 1st Trig
e day

Review Test Friday

①

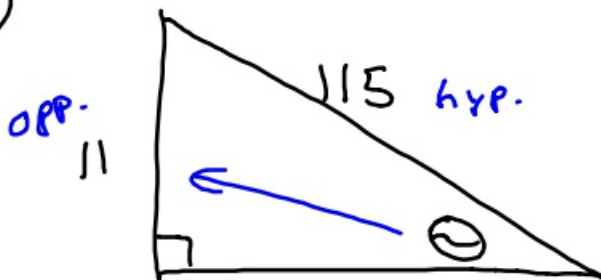


$$\frac{\tan 63}{1} = \frac{15}{x}$$

$$\frac{x \cdot \cancel{\tan 63}}{\cancel{\tan 63}} = \frac{15}{\tan 63}$$

$$x \approx 7.6$$

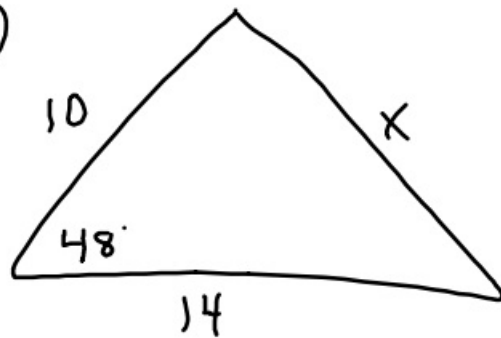
②



$$\sin^{-1} \sin \theta = \sin^{-1} \frac{11}{115}$$

$$\theta \approx 5.5^\circ$$

③

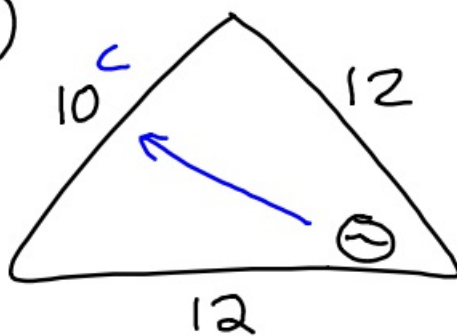


$$c^2 = a^2 + b^2 - 2ab \cos \theta$$

$$x^2 = 14^2 + 10^2 - 2 \cdot 14 \cdot 10 \cdot \cos 48^\circ$$

$$x \approx 10.4$$

④



$$10^2 = 12^2 + 12^2 - 2 \cdot 12 \cdot 12 \cdot \cos \theta$$

$$100 = 144 + 144 - 288 \cdot \cos \theta$$

$$100 = 288 - 288 \cos \theta$$

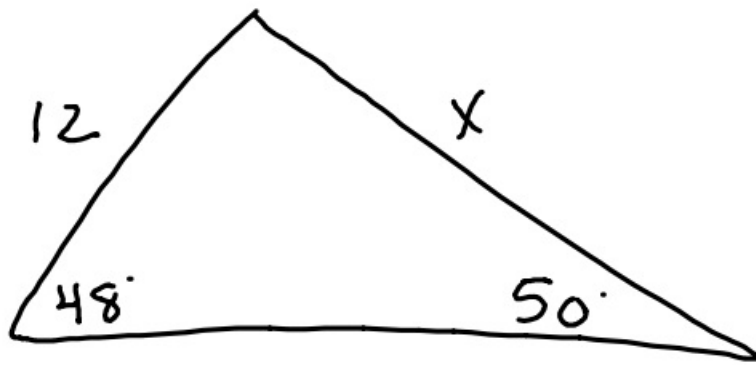
$$\begin{array}{r} -288 \quad -288 \\ \hline \end{array}$$

$$\begin{array}{r} -188 = \quad -288 \cdot \cos \theta \\ \hline -288 \quad \cdot 288 \end{array}$$

$$\cos^{-1} \frac{188}{288} = \cos^{-1} \cos \theta$$

$$\theta \approx 49.2^\circ$$

⑤

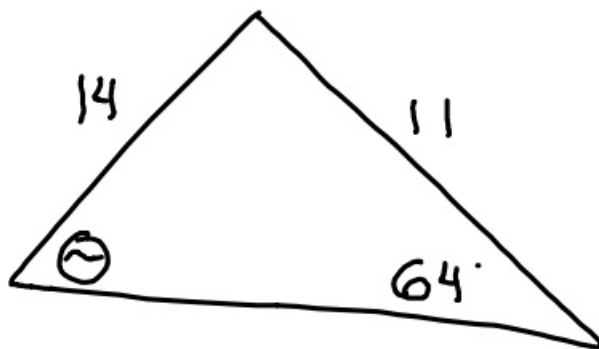


$$\frac{\sin 50^\circ}{12} = \frac{\sin 48^\circ}{x}$$

$$\frac{x \cdot \sin 50^\circ}{\cancel{\sin 50^\circ}} = \frac{12 \cdot \sin 48^\circ}{\sin 50^\circ}$$

$$x \approx 11.6$$

⑥



$$\frac{\sin \theta}{11} = \frac{\sin 64^\circ}{14}$$

$$\frac{14 \cdot \sin \theta}{14} = \frac{11 \cdot \sin 64^\circ}{14}$$

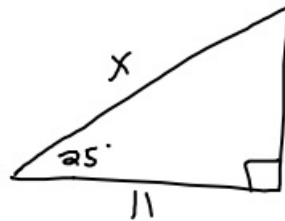
$$\sin^{-1} \sin \theta = \sin^{-1} .7062$$

$$\theta \approx 44.9^\circ$$

2-7-18 3rd Trig
e day

Review - Test Friday

①



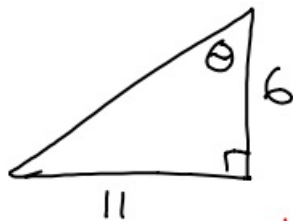
SOH
CAH
TOA

$$\frac{\cos 25^\circ}{1} = \frac{11}{x}$$

$$\frac{x \cdot \cos 25^\circ}{\cos 25^\circ} = \frac{11}{\cos 25^\circ}$$

$$x \approx 12.1$$

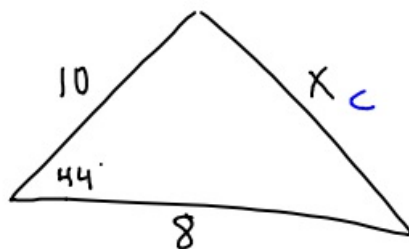
②



$$\tan^{-1} \tan \theta = \tan^{-1} \frac{11}{6}$$

$$\theta \approx 61.4^\circ$$

③

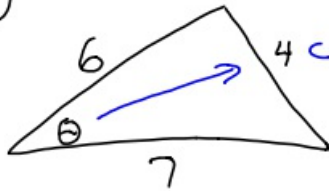


$$x^2 = 8^2 + 10^2 - 2 \cdot 8 \cdot 10 \cdot \cos 44^\circ$$

$$\sqrt{x^2} \approx \sqrt{48.9} \dots$$

$$x \approx 7.0$$

④



$$4^2 = 7^2 + 6^2 - 2 \cdot 7 \cdot 6 \cdot \cos \theta$$

$$16 = 49 + 36 - 84 \cos \theta$$

$$16 = 85 - 84 \cos \theta$$

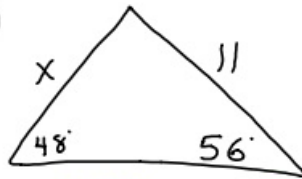
$$\begin{array}{r} -85 \\ -85 \end{array}$$

$$\frac{-69}{-84} = \frac{-84 \cos \theta}{-84}$$

$$\cos^{-1} \frac{69}{84} = \cos^{-1} \cos \theta$$

$$\theta \approx 34.8^\circ$$

⑤

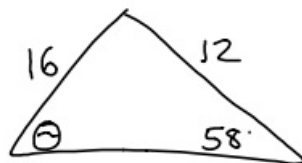


$$\frac{\sin 48^\circ}{11} = \frac{\sin 56^\circ}{X}$$

$$\frac{X \cdot \sin 48^\circ}{\sin 48^\circ} = \frac{11 \cdot \sin 56^\circ}{\sin 48^\circ}$$

$$X \approx 12.3$$

⑥



$$\frac{\sin \theta}{12} = \frac{\sin 58^\circ}{16}$$

$$\frac{16 \cdot \sin \theta}{16} = \frac{12 \cdot \sin 58^\circ}{16}$$

$$\sin^{-1} \sin \theta = \sin^{-1} 0.6360 \dots$$

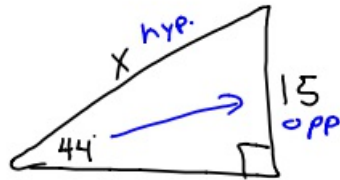
$$\theta \approx 39.5^\circ$$

2-7-18 4th Trig

e day

Test Friday

①



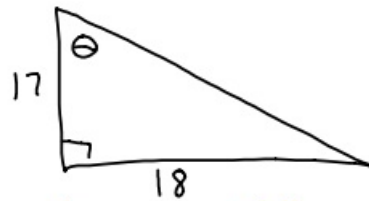
SOH
CAH
TOA

$$\frac{\sin 44^\circ}{1} = \frac{15}{X}$$

$$\frac{X \cdot \sin 44^\circ}{\sin 44^\circ} = \frac{15}{\sin 44^\circ}$$

$$X \approx 21.6$$

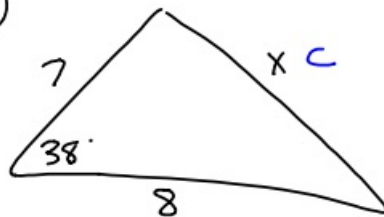
②



$$\tan \theta = \frac{18}{17}$$

$$\theta \approx 46.6^\circ$$

③

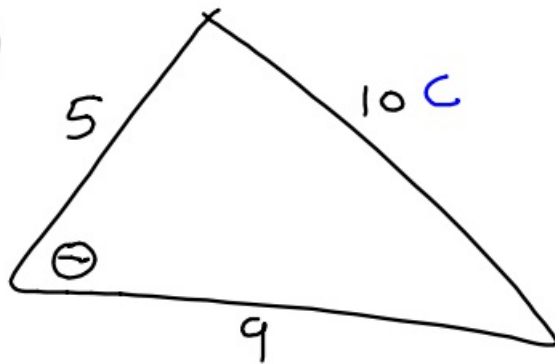


$$X^2 = 8^2 + 7^2 - 2 \cdot 8 \cdot 7 \cdot \cos 38^\circ$$

$$X^2 = 24.74 \dots$$

$$X \approx 5.0$$

④



$$10^2 = 9^2 + 5^2 - 2 \cdot 9 \cdot 5 \cdot \cos \theta$$

$$100 = 81 + 25 - 90 \cdot \cos \theta$$

$$100 = 106 - 90 \cdot \cos \theta$$

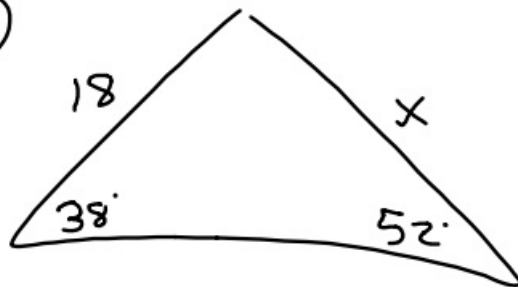
$$\begin{array}{r} -106 \\ \hline \end{array}$$

$$\begin{array}{r} -6 = -90 \cdot \cos \theta \\ \hline -90 \end{array}$$

$$\cos^{-1} \frac{6}{90} = \cos^{-1} \cos \theta$$

$$\theta \approx 86.2^\circ$$

⑤

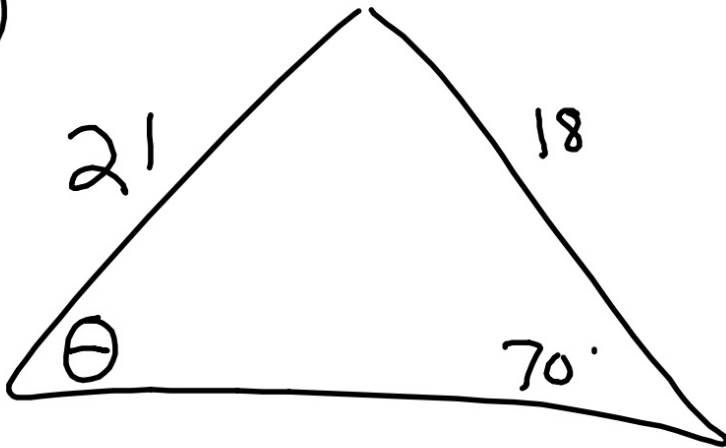


$$\frac{\sin 38^\circ}{x} = \frac{\sin 52^\circ}{18}$$

$$\frac{x \cdot \cancel{\sin 52^\circ}}{\cancel{\sin 52^\circ}} = \frac{18 \cdot \sin 38^\circ}{\sin 52^\circ}$$

$$x \approx 14.1$$

⑥



$$\frac{\sin \theta}{18} = \frac{\sin 70^\circ}{21}$$

$$\frac{\cancel{21} \cdot \sin \theta}{\cancel{21}} = \frac{18 \cdot \sin 70^\circ}{21}$$

$$\sin^{-1} \sin \theta = \sin^{-1} .8054 \dots$$

$$\theta \approx 53.7^\circ$$