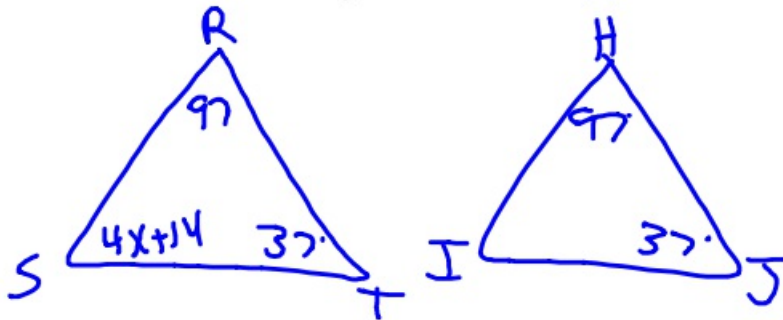


10-31-17 5th Geo

CHAPTER 3

(12) $\triangle RST \cong \triangle HIJ$, $\angle R = 97^\circ$

$$\angle J = 37^\circ, \angle S = 4x + 14$$



$$4x + 14 + 37 + 97 = 180^\circ$$

$$\begin{array}{r} 4x + 148 = 180^\circ \\ - 148 \quad - 148 \\ \hline 4x = 32 \\ x = 8 \end{array}$$

CHAPTER 3

(16)



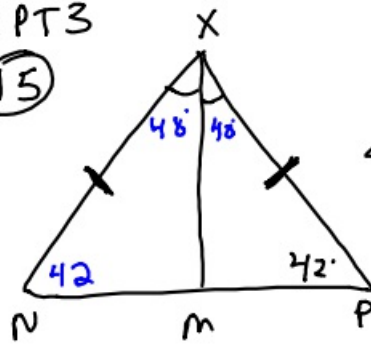
$$2n + 6 + 8n + 4 = 180^\circ$$

$$\begin{array}{r} 10n + 10 = 180^\circ \\ - 10 \quad - 10 \\ \hline \end{array}$$

$$n = 17$$

Ch 4 PT 3

(15)



$$\angle MXP = 48^\circ$$



(20) (2, 9)

$$\perp \text{ to } y = \frac{1}{2}x + 10$$

$$m = \frac{1}{2}$$

$$\therefore \perp m = -2$$

$$y - y_1 = m(x - x_1)$$

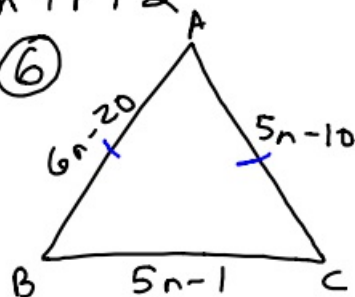
$$y - 9 = -2(x - 2)$$

$$\begin{array}{r} y - 9 = -2x + 4 \\ +9 \qquad \qquad +9 \end{array}$$

$$\hline y = -2x + 13$$

Ch 4 PT 2

(6)



$$\overline{AB} \cong \overline{AC}$$

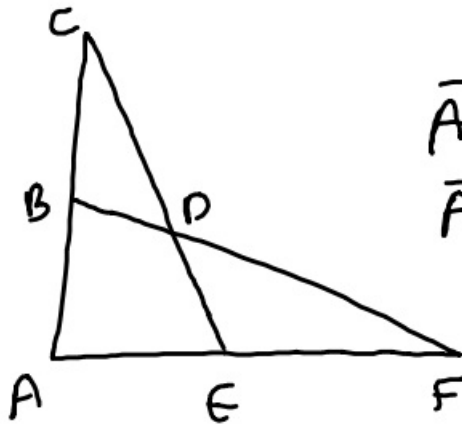
$$6n - 20 = 5n - 10$$

$$n = 10$$

$$AB = 6n - 20$$

$$6 \cdot 10 - 20 = 40$$

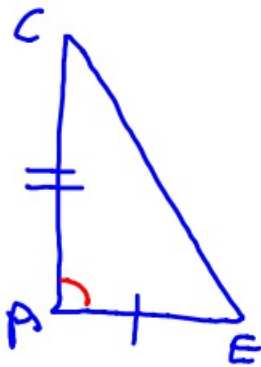
Practice



$$\overline{AE} \cong \overline{AB}$$

$$\overline{AC} \cong \overline{AF}$$

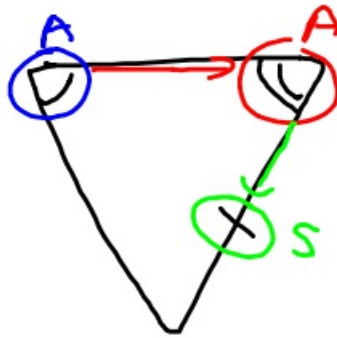
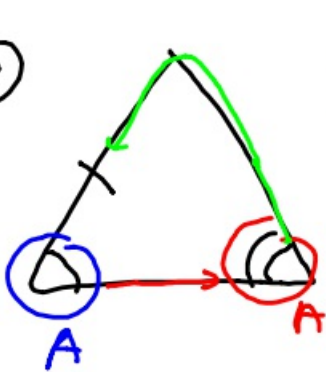
What proves
 $\triangle ACE \cong \triangle AFB$



SAS

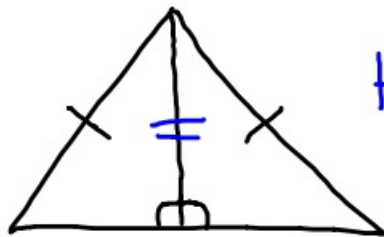


②



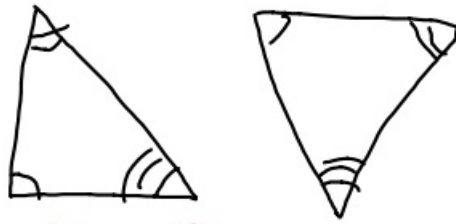
NP

③



HL

④



~~AAA~~ NP

⑤ Give eq. in SIF that goes through $(2, 4)$ and $(4, 14)$.

$$m = \frac{\Delta y}{\Delta x} = \frac{14-4}{4-2} = \frac{10}{2} = 5$$

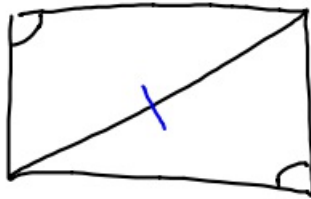
$$y - y_1 = m(x - x_1)$$

$$y - 4 = 5(x - 2)$$

$$y - 4 = 5x - 10$$

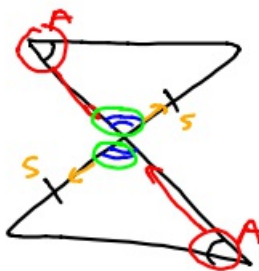
$$\begin{array}{r} +4 \\ \hline y = 5x - 6 \end{array}$$

⑥



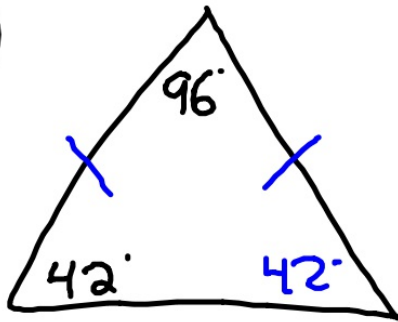
N.P.

⑦



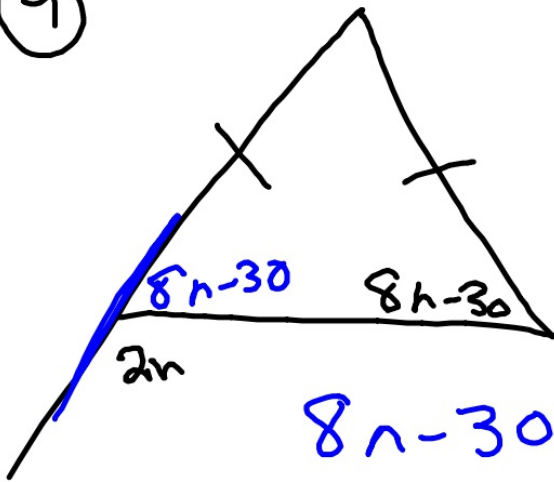
AAS

8



obtuse isosceles

9



find n .

$$8n - 30 + 2n = 180$$

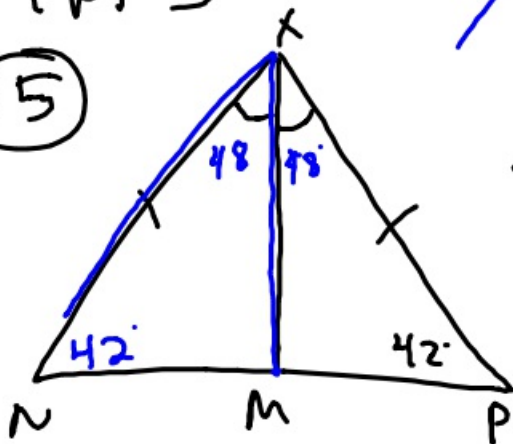
$$10n = 210$$

$$n = 21$$

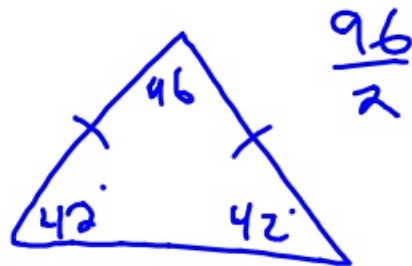
10-31-17 6th Geo

CH 4 PT 3

(15)



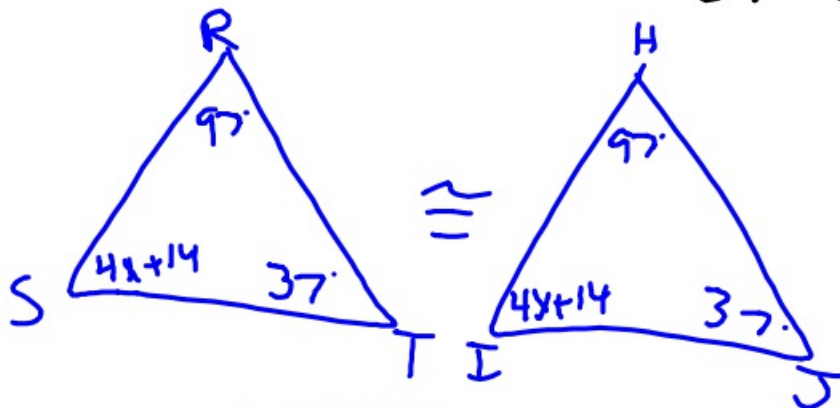
$$\angle MXN = 48^\circ$$



CH 4 PT 3

(12) $\triangle RST \cong \triangle HIJ$

$$\angle R = 97^\circ \quad \angle J = 37^\circ \quad \angle S = 4x + 14$$



$$4x + 14 + 37 + 97 = 180$$

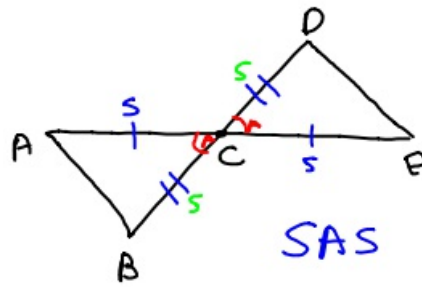
$$4x + 148 = 180$$

$$4x = 32$$

$$x = 8$$

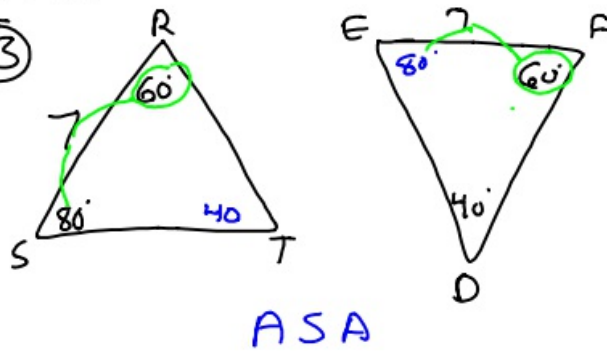
CH4PT2

(14)



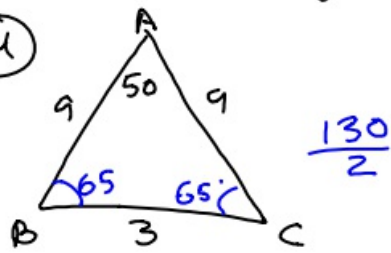
CH4PT3

(13)



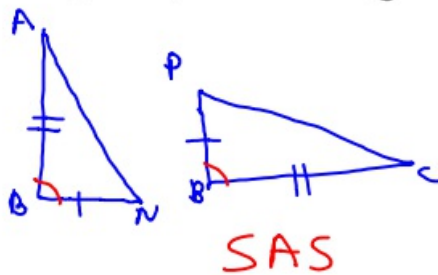
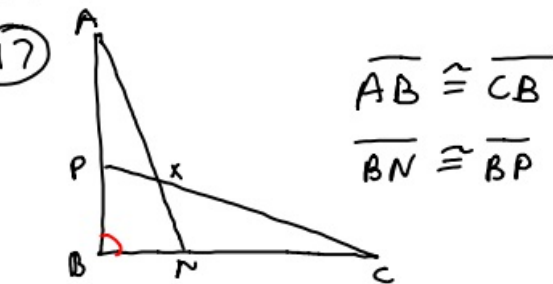
CH4PT3

(14)



CH4PT3

(17)



CH4PT3

(16)



$$2n+6+8n+4=180$$

$$10n+10=180$$

$$n=17$$

CH4PT2

(20)



$$y - y_1 = m(x - x_1)$$

$$m = \frac{\Delta y}{\Delta x} = \frac{6-3}{3-4}$$



$$y - 3 = -3(x - 4)$$

$$\frac{3}{-1}$$

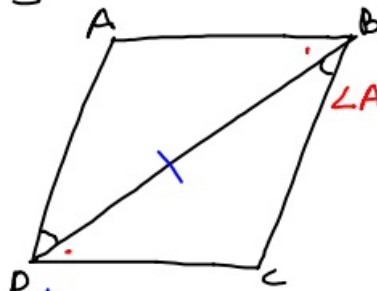
$$y - 3 = -3x + 12$$

$$-3$$

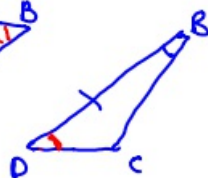
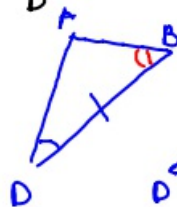
$$\begin{array}{r} y - 3 = -3x + 12 \\ +3 \qquad \qquad +3 \\ \hline y = -3x + 15 \end{array}$$

CH4PT3

(19)



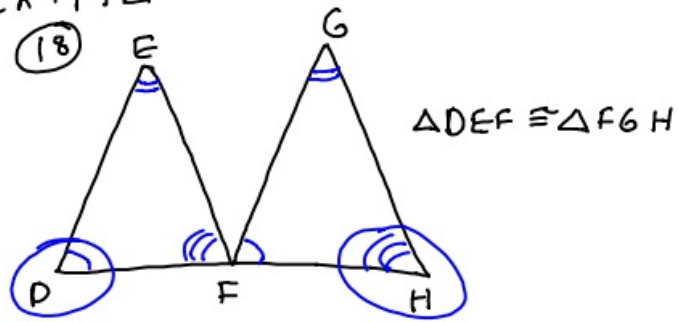
$$\angle ABD = \angle CDB$$



ASA

CH4PT2

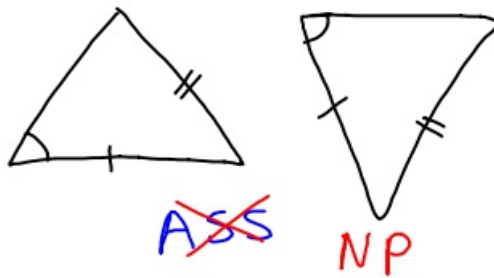
(18)



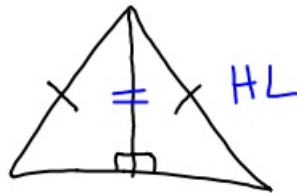
A. $\Delta \overset{\vee}{E} \overset{\vee}{D} \overset{\vee}{F} \cong \Delta \overset{\vee}{G} \overset{\vee}{F} \overset{\vee}{H}$

D. $\Delta \overset{\vee}{F} \overset{\vee}{D} \overset{\vee}{E} \cong \Delta \overset{\vee}{F} \overset{\vee}{H} \overset{\vee}{G}$

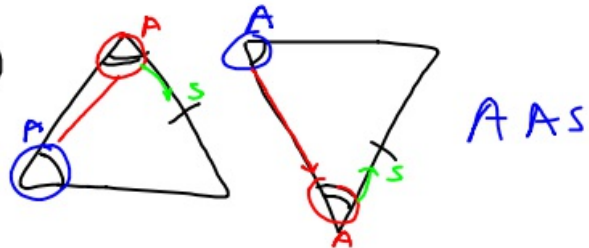
①



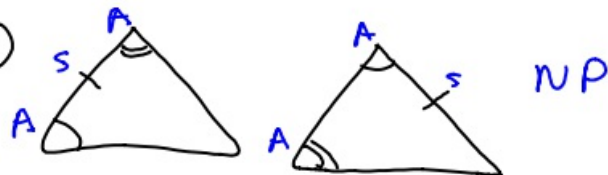
②



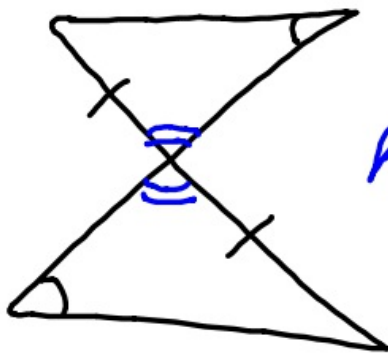
③



④

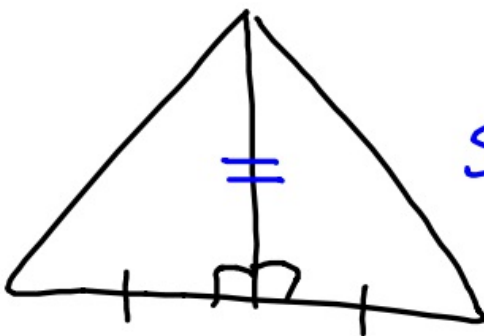


⑤



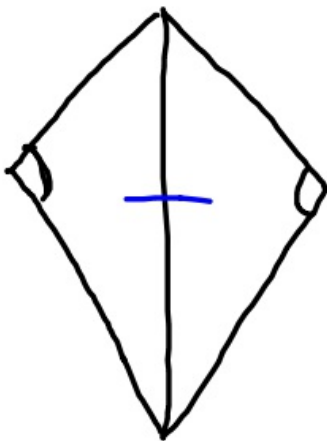
AAS

⑥



SAS

⑦



NP