

10-28-19 6th Geo

Practice

- ① Give equation in SIF that goes through (2,4) and is perpendicular to $y = 2x - 1$.

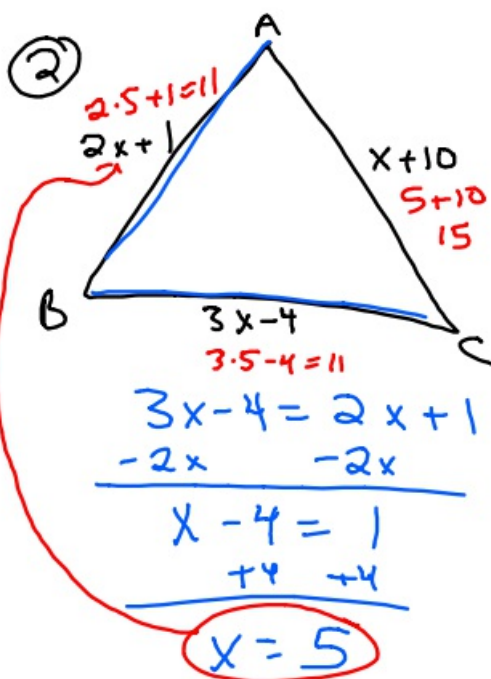
$$m = 2 \therefore \perp m = -\frac{1}{2}$$

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

$$y - 4 = -\frac{1}{2}(x - 2)$$

$$y - 4 = -\frac{1}{2}x + 1$$

$$\begin{array}{r} +4 \\ \hline y = -\frac{1}{2}x + 5 \end{array}$$



$\triangle ABC$ is an isosceles triangle with $\overline{AB} \cong \overline{BC}$. Find all 3 sides.

$$AB = 11$$

$$BC = 11$$

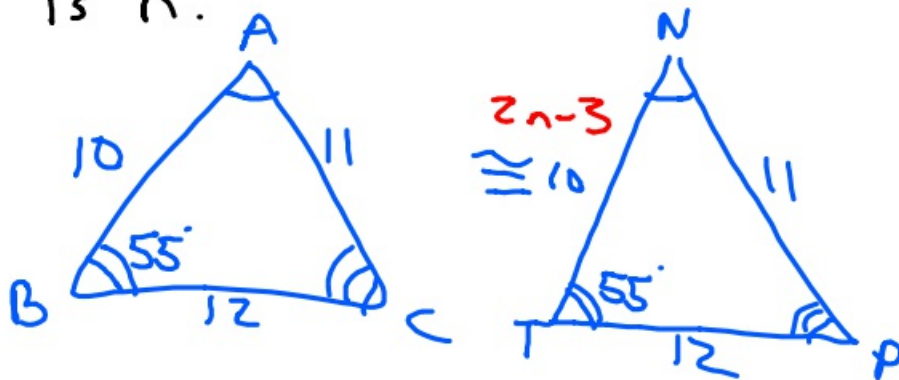
$$AC = 15$$

③ $\triangle ABC \cong \triangle NTP$. If

$AB = 10$, $TP = 12$, $AC = 11$,

$\angle ABC = 55^\circ$, and $TN = \underline{2n - 3}$. What

is n ?

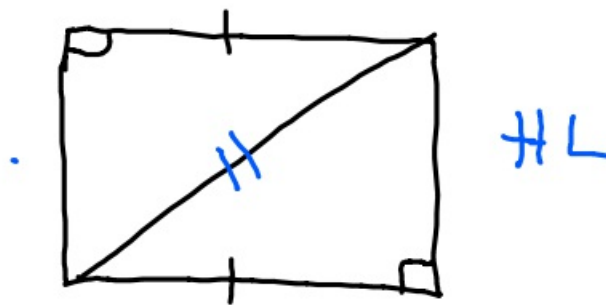


$$2n - 3 = 10$$

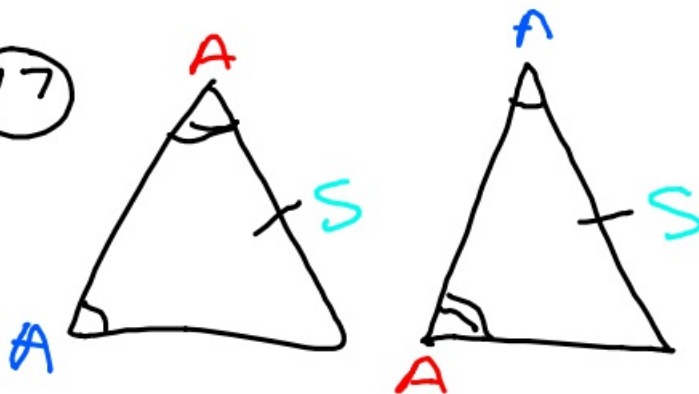
$$2n = 13$$

$$n = 6.5$$

⑭



⑰



10-28-19 7th Geo

- ① Give an equation in SIF that goes through (2, 8) and is \perp to $y = 2x + 3$.

$$m = 2 \therefore \perp m = -\frac{1}{2}$$

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

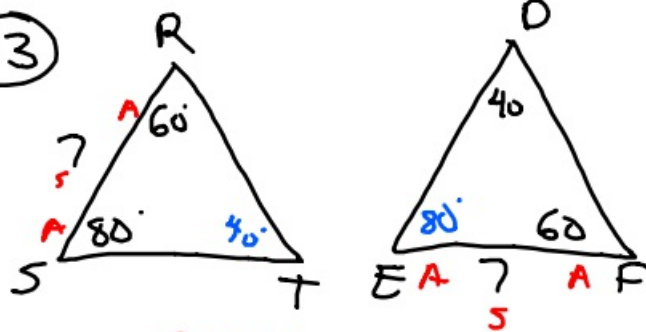
$$y - 8 = -\frac{1}{2}(x - 2)$$

$$y - 8 = -\frac{1}{2}x + 1$$

$$\frac{y - 8 + 8}{y} = \frac{-\frac{1}{2}x + 1 + 8}{-\frac{1}{2}x + 9}$$

Ch. 4 PT 3

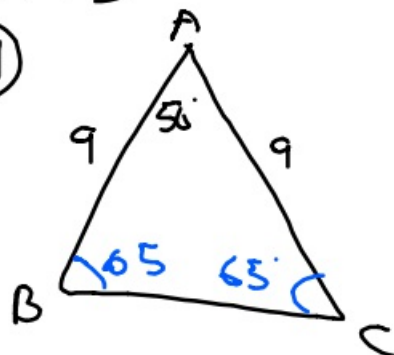
⑬



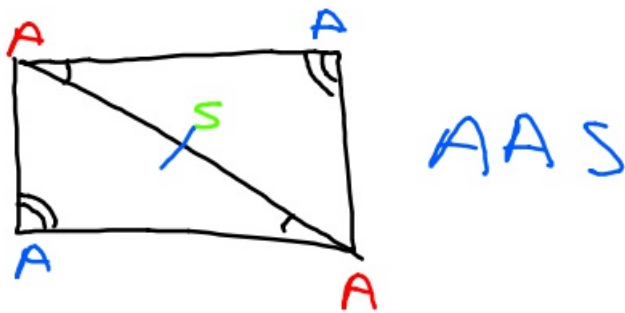
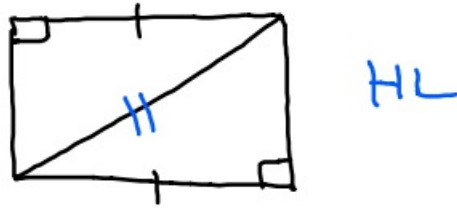
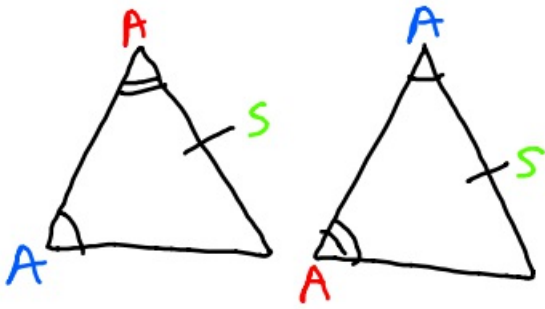
ASA

Ch. 4 PT 3

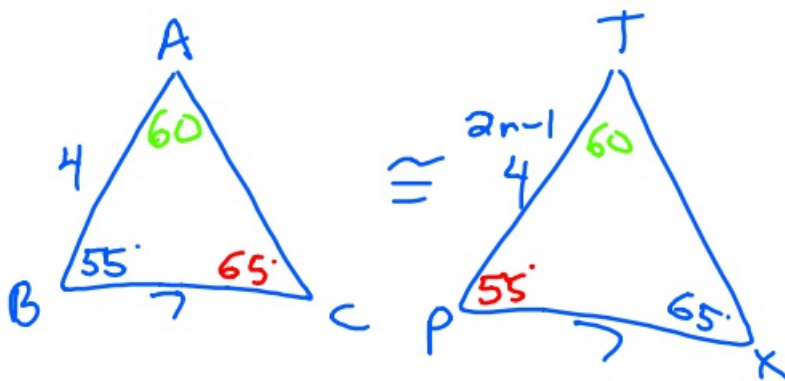
⑭



$$\frac{130}{2} = 65$$



$\triangle ABC \cong \triangle TPX$. If $AB=4$,
 $BC=7$, $\angle ABC=55^\circ$, $TP=2n-1$,
 and $\angle PXT=65^\circ$, find n ?



$$2n-1=4$$

$$\frac{2n-1}{2} = \frac{4}{2}$$

$$2n = 5 \quad n = 2\frac{1}{2}$$