10-30-17   5th Geo

① What is true if

$$\triangle ABC \cong \triangle TXN ?$$

$\overline{AB} \cong \overline{TX}$ $\angle A \cong \angle T$
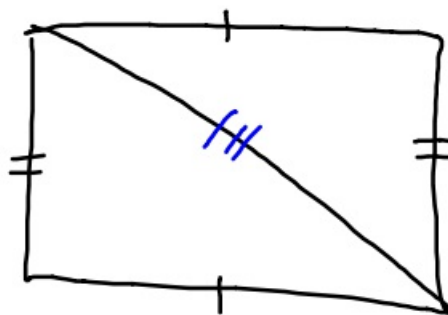
$\overline{BC} \cong \overline{XN}$ $\angle B \cong \angle X$
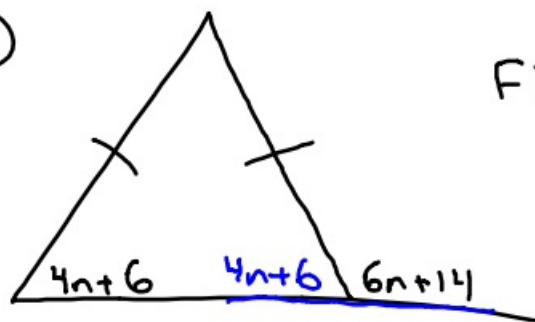
$\overline{AC} \cong \overline{TN}$ $\angle C \cong \angle N$
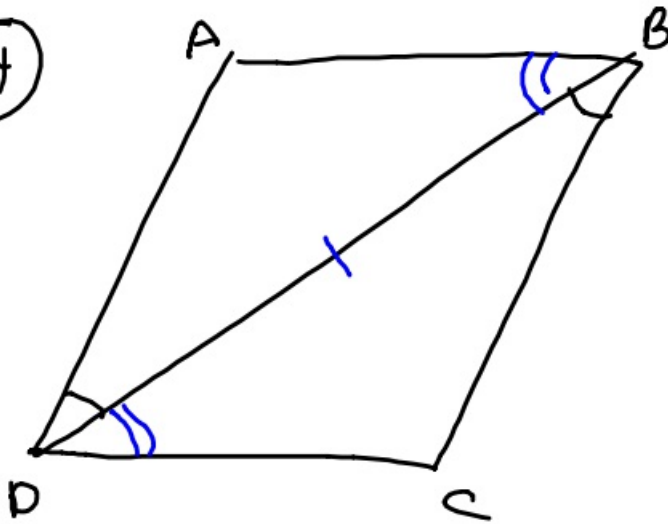
②

SSS

③

Find n.

$4n+6$ $4n+6$ $6n+14$

$4n+6+6n+14=180$

$10n+20=180$

$-20\ -20$

$\overline{}$

$10n= 160$

$n= 16$

④

what must be true for
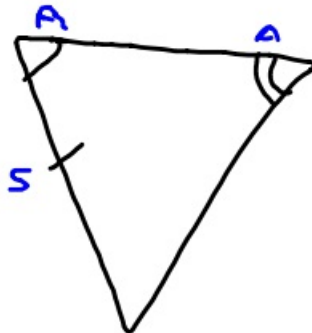
△ABD ≅ △CDB by ASA?
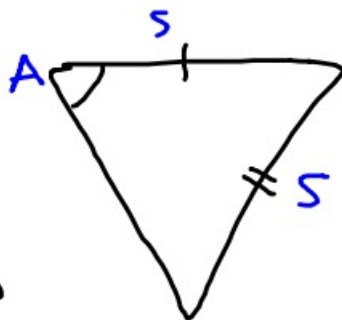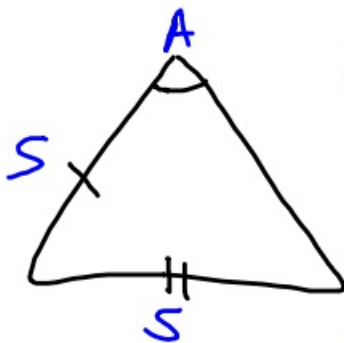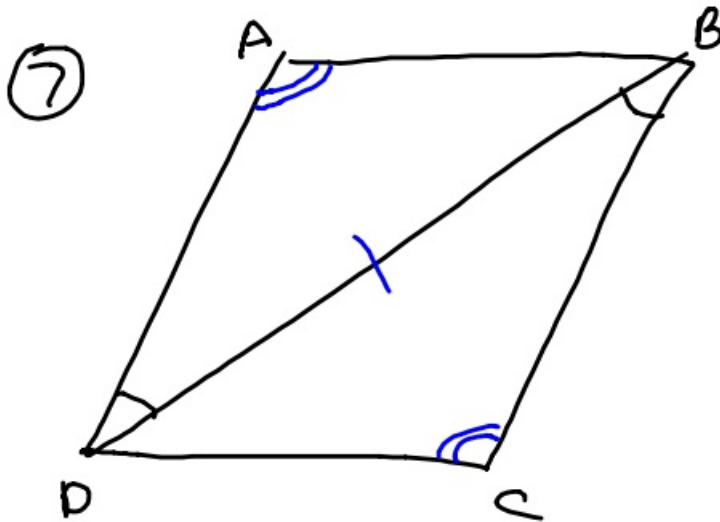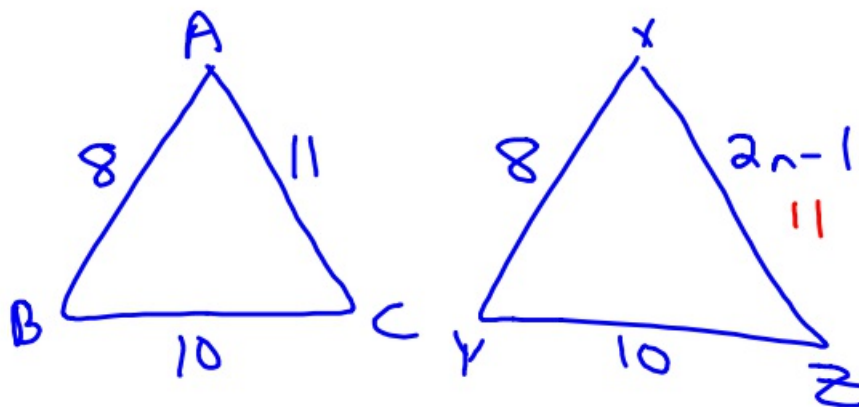
∠ABD = ∠CDB.

⑤

ASA

NP

⑥

NP

⑦

what must be true for

$\triangle ABD \cong \triangle CDB$ by AAS?

$\angle C = \angle A$

⑧ If $\triangle ABC \cong \triangle XYZ$ with

$AB = 8$, $BC = 10$, $AC = 11$, and

$ZX = 2n-1$, what is n?

$2n-1 = 11$

$\underline{+1 \quad +1}$

$2n = 12$

$n = 6$

⑨ Give the equation in slope intercept form that goes through $(2,8)$ and is $\perp$ to $y = \boxed{-2}x - 5$.

$m = -2$

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

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

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

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

$+8 \phantom{= \frac{1}{2}x} +8$

_____

$y = \frac{1}{2}x + 7$

10-30-17   6TH

① Give the equation in
   Slope intercept form that
   goes through (2,8) and
   is ⊥ to y = ①$\frac{1}{3}$x + 5.
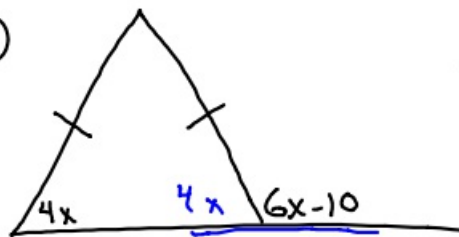
$$m = \frac{1}{3}$$
$$\therefore \perp = -3$$
$$y - y_1 = m(x - x_1)$$
$$y - 8 = -3(x - 2)$$
$$y - 8 = -3x + 6$$
$$\underline{+8 \qquad\qquad +8}$$
$$y = -3x + 14$$

②

Find x.

4x   4x   6x-10

$$4x + 6x - 10 = 180°$$
$$10x - 10 = 180°$$
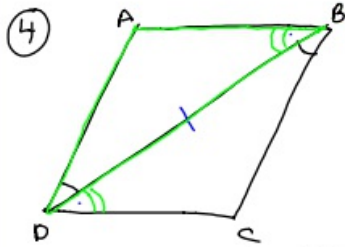$$\underline{+10 \qquad +10}$$
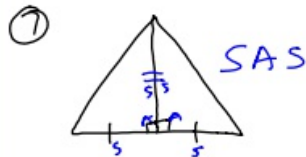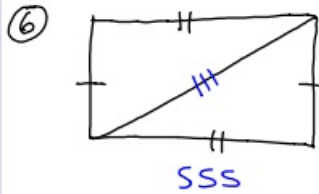$$10x = 190$$
$$x = 19$$

③

No

④
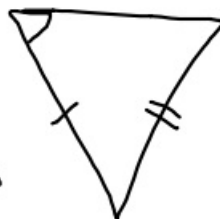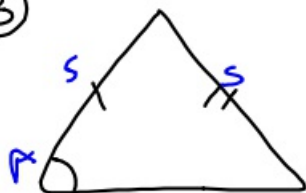
what must be true for
$\triangle ABD \cong \triangle CDB$ by $\underline{ASA}$?
$\angle ABD = \angle CDB$

⑤ $\triangle ABC \cong \triangle XYZ$. What
is true?

$\overline{AC} \cong \overline{XZ}$ $\angle A \cong \angle X$

$\overline{AB} \cong \overline{XY}$ $\angle B = \angle Y$

$\overline{BC} \cong \overline{YZ}$ $\angle C = \angle Z$

⑥

SSS

⑦

     SAS

⑧ In isosceles $\triangle ABC$, $\overline{AB} \cong \overline{BC}$.
Find AC.

$3n-4 = n+10$
$\underline{ -n \qquad -n}$
$2n-4 = 10$
$\underline{ +4 \quad +4}$
$2n = 14$

$AC = 2 \cdot n - 7$ $n = 7$
$2 \cdot 7 - 7 = 7$