

10-27-17 5th Geo

- ① Give the equation in slope intercept form that goes through $(2, 8)$ and is \perp to $y = \frac{1}{3}x - 5$.

$$m = \frac{1}{3}$$

$$\therefore \perp m = -3$$

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

$$y - 8 = -3(x - 2)$$

$$\begin{array}{r} y - 8 = -3x + 6 \\ +8 \qquad +8 \end{array}$$

$$y = -3x + 14$$

- ② Give the eq. in SIF that goes through $(1, 7)$ and $(2, 11)$.

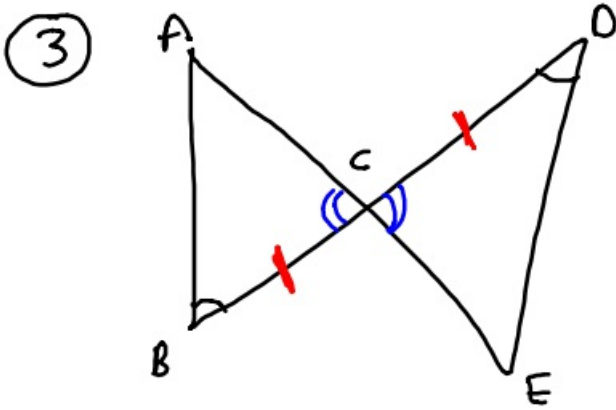
$$m = \frac{\Delta y}{\Delta x} = \frac{11 - 7}{2 - 1} = \frac{4}{1} = 4$$

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

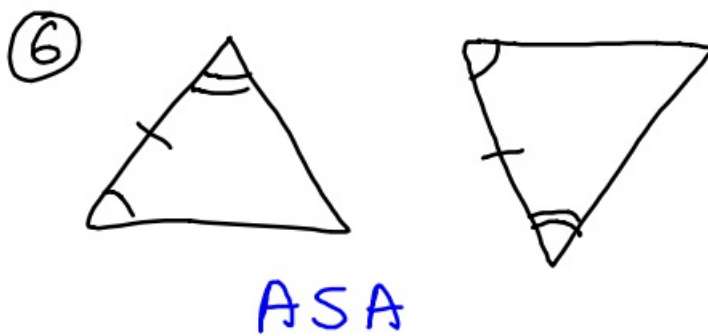
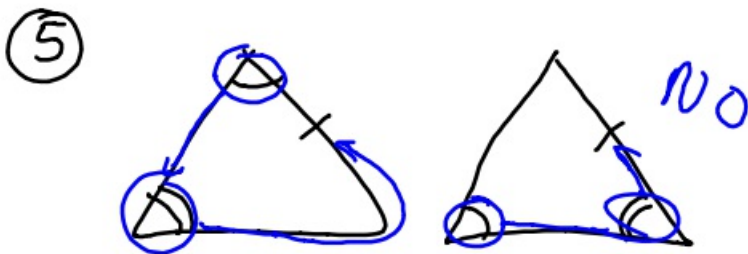
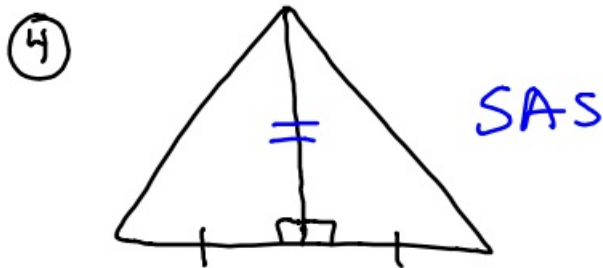
$$y - 7 = 4(x - 1)$$

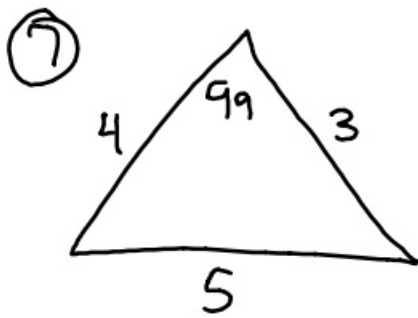
$$\begin{array}{r} y - 7 = 4x - 4 \\ +7 \qquad +7 \end{array}$$

$$y = 4x + 3$$

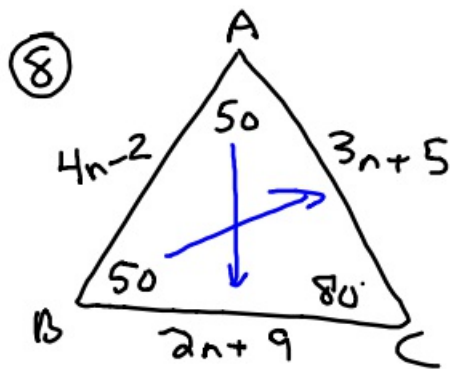


What must be true for $\triangle BCA \cong \triangle DCE$ by ASA?
 $BC = CD$



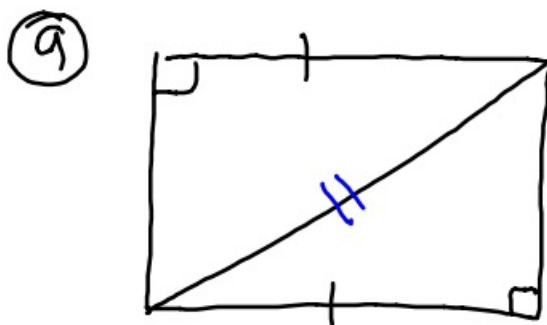


obtuse scalene

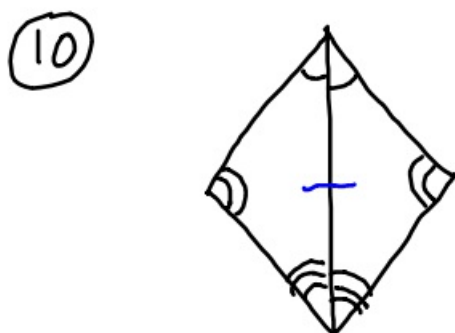


Find n .

$$\begin{aligned}
 3n+5 &= 2n+9 \\
 -2n &\quad -2n \\
 \hline
 n+5 &= 9 \\
 -5 &\quad -5 \\
 \hline
 n &= 4
 \end{aligned}$$



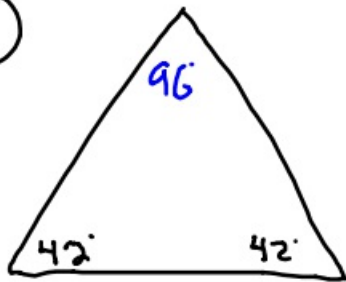
HL



AAS
ASA

10-27-17 6th Geo

①



Obtuse isosceles

②

Give the equation in slope intercept form that goes through $(2, 10)$ and is \perp to $y = \frac{1}{4}x - 7$.

$$m = \frac{1}{4} \therefore \perp m = -4$$

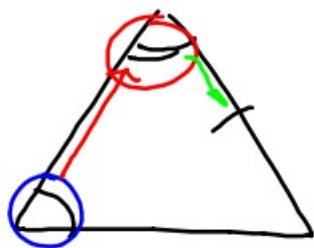
$$y - y_1 = m(x - x_1)$$

$$y - 10 = -4(x - 2)$$

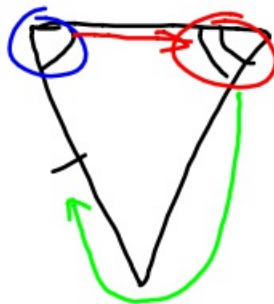
$$y - 10 = -4x + 8$$

$$\begin{array}{r} +10 \\ \hline y = -4x + 18 \end{array}$$

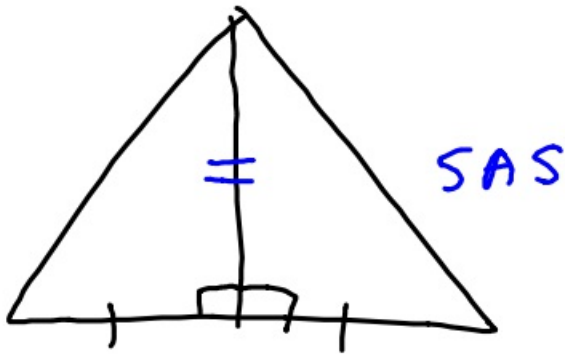
③



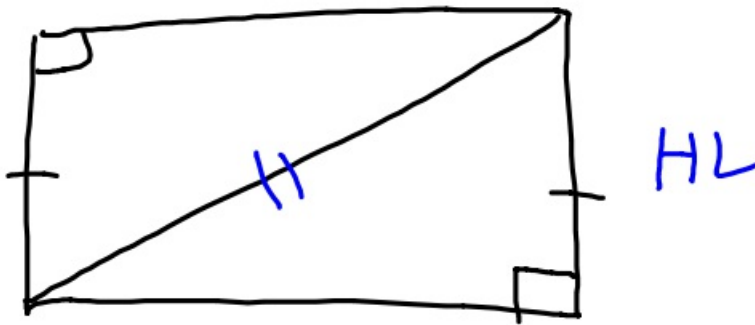
NO



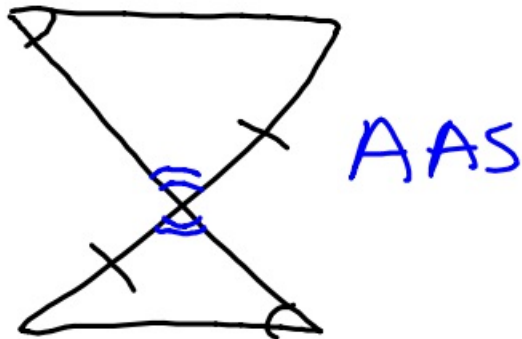
4)



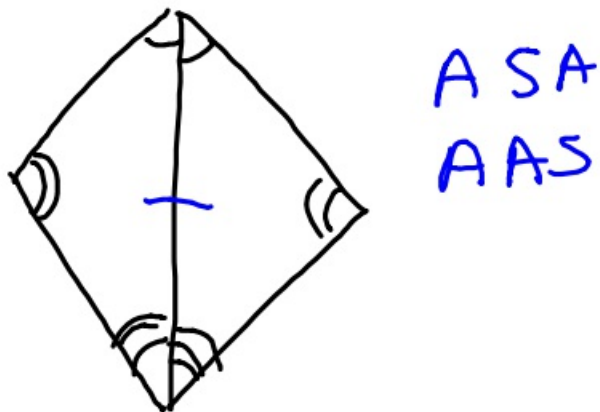
5)



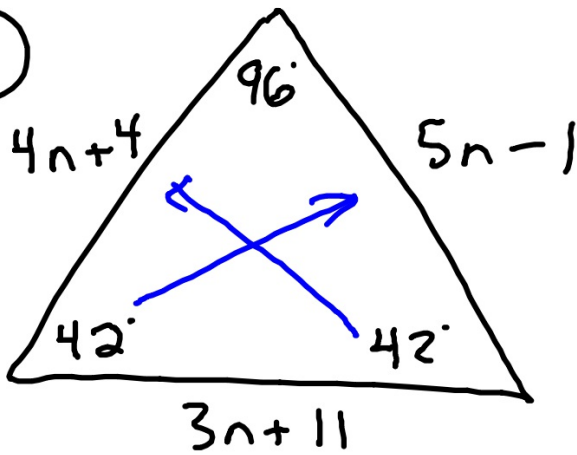
6)



7)



8



Find n

$$\begin{array}{r} 5n-1 = 4n+4 \\ -4n \quad -4n \\ \hline n-1 = 4 \\ +1 \quad +1 \\ \hline n = 5 \end{array}$$