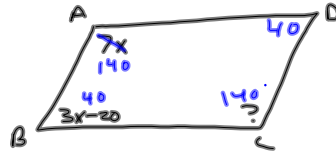


12-12-13
5th Geo

169 ABCD is parallelogram



$$7x + 3x - 20 = 180$$

$$10x - 20 = 180$$

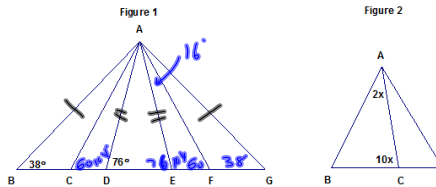
$$x = 20$$

18 \perp to $y = -\frac{1}{7}x + 3$

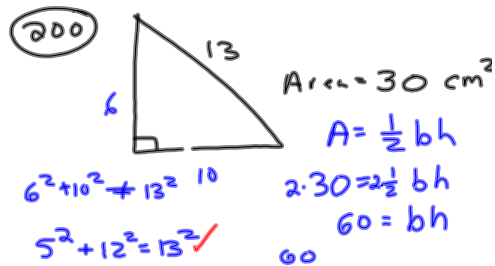
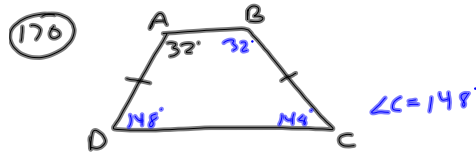
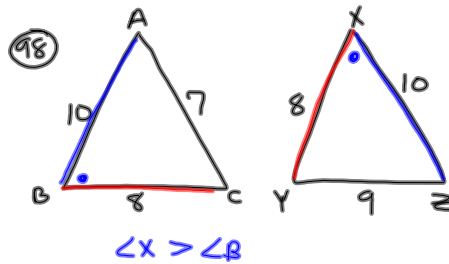
$$m = -\frac{1}{7}$$

$$\perp = 7$$

$$y = 7x + \underline{\hspace{2cm}}$$



191 $\angle EAF = 16^\circ$



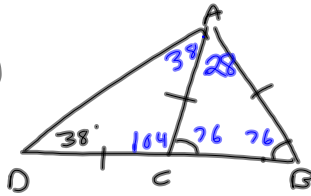
$$6^2 + 10^2 \neq 13^2 \quad 10$$

$$5^2 + 12^2 = 13^2 \quad \checkmark$$

$$\begin{array}{r} 60 \\ \underline{+60} \\ 120 \\ \underline{+120} \\ 240 \\ \underline{+240} \\ 480 \\ \underline{+480} \\ 960 \end{array}$$

5, 12
6, 10

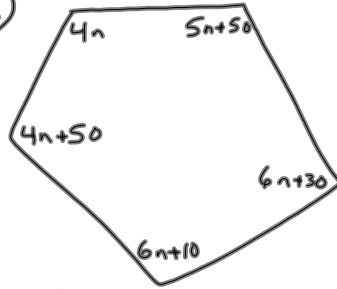
193



$$AB = AC = DC$$

$$\angle CAB = 28^\circ$$

156



$$(n-2) \cdot 180 =$$

$$(5-2) \cdot 180 = 540^\circ$$

$$4n + 5n + 50 + 6n + 30 + 6n + 10 + 4n + 50 = 540$$

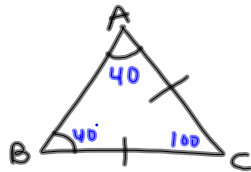
$$25n + 140 = 540^\circ$$

$$n = 16$$

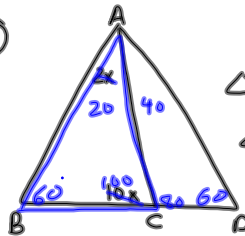
76 $\triangle ABC$ isosceles \triangle

$$AC = BC \quad \angle A = 40^\circ$$

$$\angle B = ? \quad 40^\circ$$



192



$\triangle ABD$ is equilateral

$$\angle CAD = ? \quad 40^\circ$$

$$2x + 10x + 60 = 180^\circ$$

$$x = 10$$

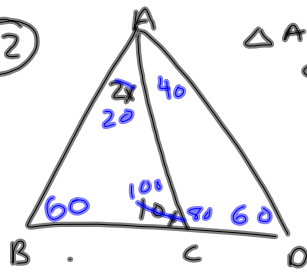
$$\textcircled{68} \quad y = 5x + 4$$

$$m = \underline{5}$$

$$\perp m = -\frac{1}{5}$$

12-12-13
6²¹

142



$\triangle ABC$ is an equilateral \triangle .

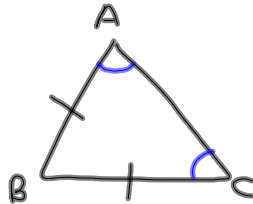
$\angle CAD = ? 40^\circ$

$$2x + 10x + 60 = 180$$

$$x = 10$$

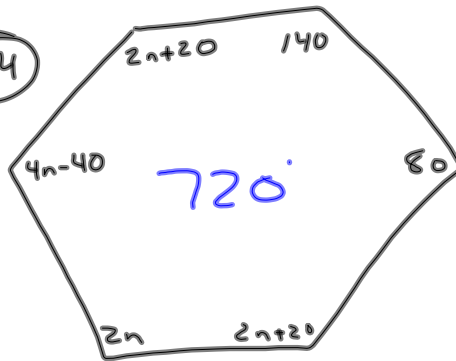
72

$\triangle ABC$ is isosceles with $AB = BC$



$$\angle A = \angle C$$

154



$$(n-2) \cdot 180^\circ$$

$$(6-2) \cdot 180 = 720$$

157

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

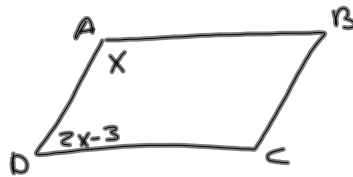
$$m = \frac{1}{2} \therefore \perp m = -2$$

$$y = -2x + \underline{\quad}$$

163) ABCD is a parallelogram

$$\angle A = x \quad \angle D = 2x - 3$$

What is x ?



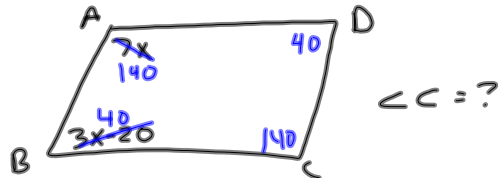
$$x + 2x - 3 = 180$$

$$3x - 3 = 180$$

$$\underline{\quad + 3 \quad + 3}$$

$$x = 61$$

110) ABCD is parallelogram



$$7x + 3x - 20 = 180$$

$$10x - 20 = 180$$

$$x = 20$$

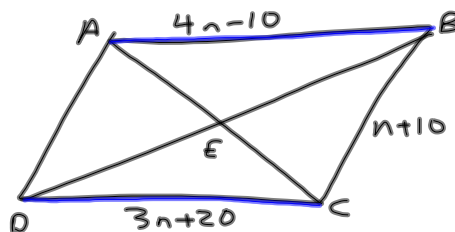
119) In a parallelogram

$$DC = 3n + 20$$

$$BC = n + 10$$

$$AB = 4n - 10$$

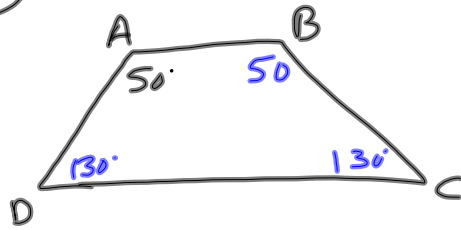
What is n ?



$$4n - 10 = 3n + 20$$

$$n = 30$$

(111)



(40) If $p \rightarrow q$ and $q \rightarrow r$

$$p \rightarrow r$$

(70) $(3, 4)$ $(5, 10)$

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{10-4}{5-3} = \frac{6}{2} = 3$$

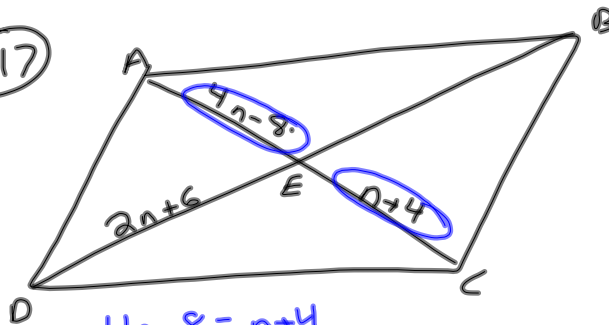
$$y - y_1 = m(x - x_1)$$

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

$$\begin{array}{r} y - 4 = 3x - 9 \\ +4 \quad \quad +4 \end{array}$$

$$\hline y = 3x - 5$$

(117)

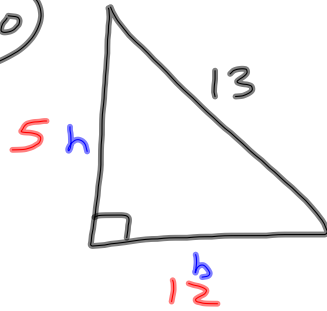


$$4n - 8 = n + 4$$

$$\begin{array}{r} 4n - 8 = n + 4 \\ -n \quad -n \\ \hline 3n - 8 = 4 \end{array}$$

$$\begin{array}{r} 3n - 8 = 4 \\ +8 \quad +8 \\ \hline 3n = 12 \\ n = 4 \end{array}$$

200



$$\text{Area} = 30 \text{ cm}^2$$

$$A = \frac{1}{2} b h$$

$$2 \cdot 30 = \frac{1}{2} \cdot 2 b h$$

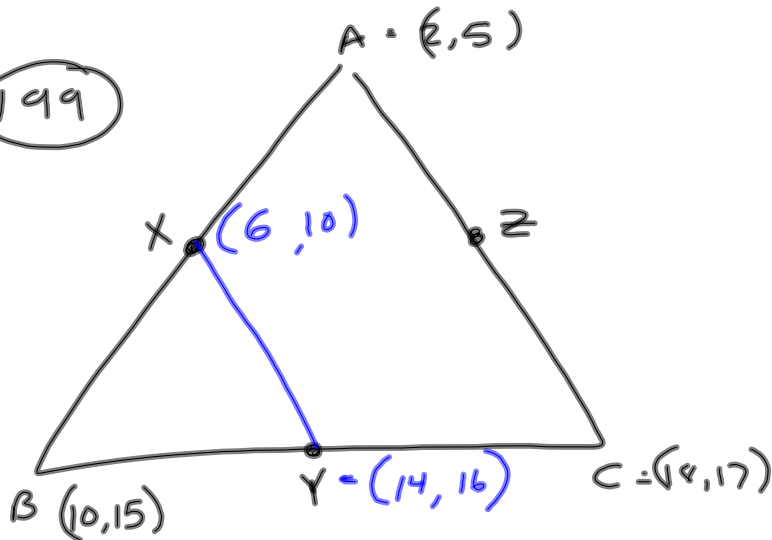
$$60 = b \cdot h$$

$$\begin{array}{r} 60 \\ \hline 1, 60 \\ \hline 2, 30 \\ \hline 3, 20 \\ \hline 4, 15 \\ \hline 5, 12 \\ \hline 6, 10 \end{array}$$

$$\checkmark 5^2 + 12^2 = 13^2 \leftarrow$$

$$6^2 + 10^2 = 13^2 \leftarrow$$

199



What is XY?

$$D = \sqrt{\Delta x^2 + \Delta y^2}$$

$$= \sqrt{8^2 + 6^2}$$

$$\sqrt{100}$$

$$10$$

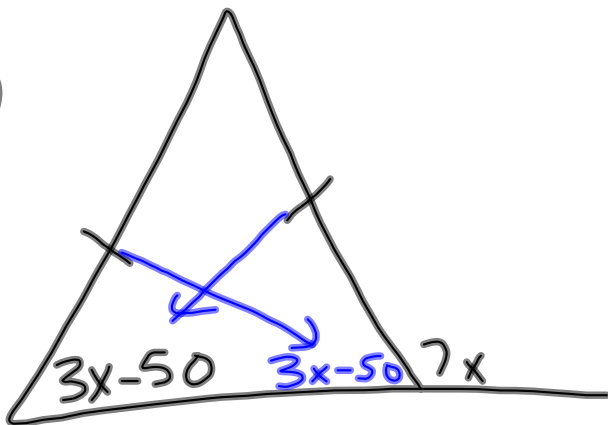
$$(77) \triangle \underline{ABC} \cong \triangle \underline{XYZ}$$

$$AB = \underline{38} \quad YZ = 28 \quad XY = \underline{5x+8}$$

$$5x+8=38$$

$$x=6$$

(149)



$$3x-50+7x=180$$

$$10x-50=180$$

$$x=23$$