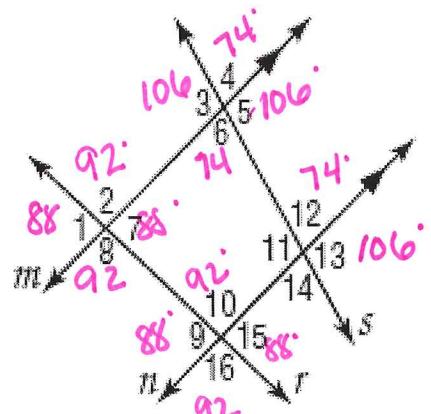


- In the figure, $m\angle 2 = 92$ and $m\angle 12 = 74$. Find the value of each angle.
- 1.

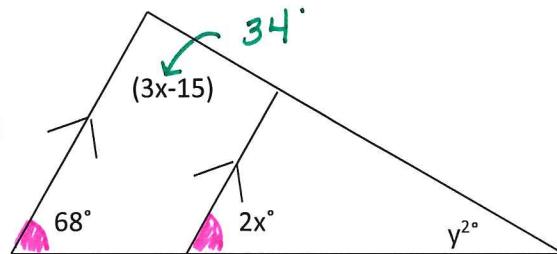


2. Find the value of x and y

$$68^\circ = 2x$$

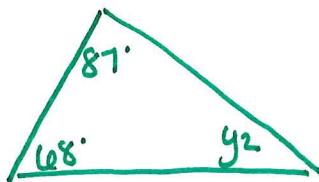
$$\boxed{34^\circ = x}$$

corresponding
∠s are \cong



$$3(34) - 15$$

$$= 87^\circ$$



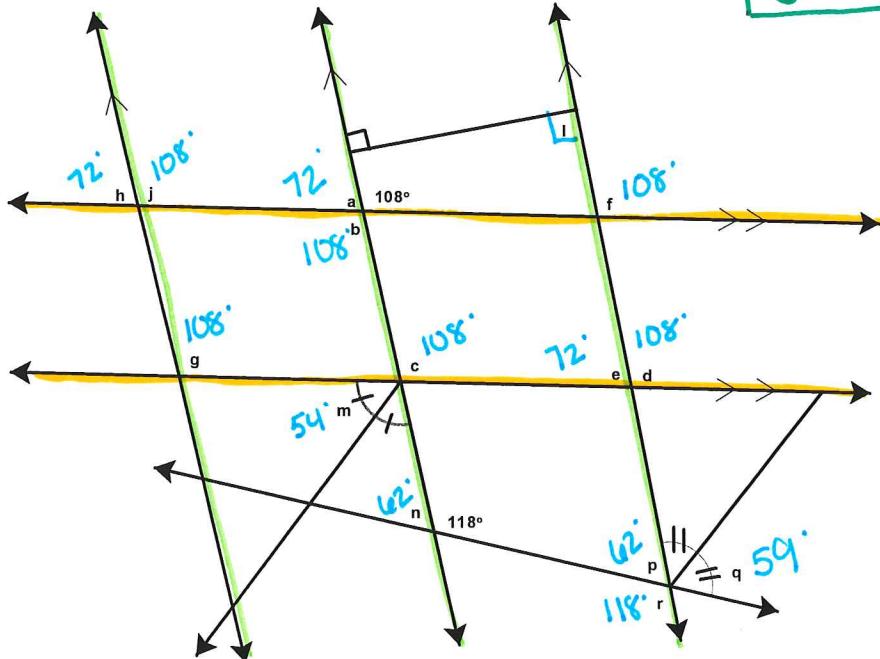
$$y^2 + 68 + 87 = 180^\circ \quad \Delta \text{ sum theorem}$$

$$y^2 + 155 = 180$$

$$y^2 = 25$$

$$\boxed{y = \pm 5}$$

- 3.



In the figure, $m\angle 2 = 92$ and $m\angle 12 = 74$. Find the measure of each angle.

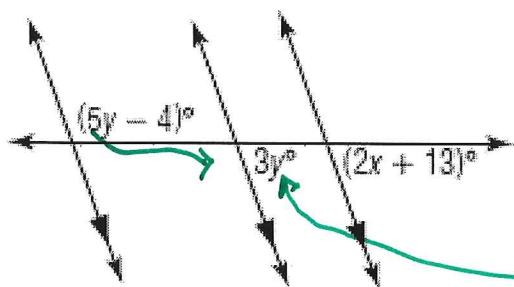
1) $m\angle 8$

2) $m\angle 5$

3) $m\angle 13$

Same as
starting warmup.

4) Find the measure of x and y :



$$5y - 4 + 3y = 180 \cdot \text{linear pairs are suppl.}$$

$$8y - 4 = 180$$

$$8y = 184$$

$$\boxed{y = 23}$$

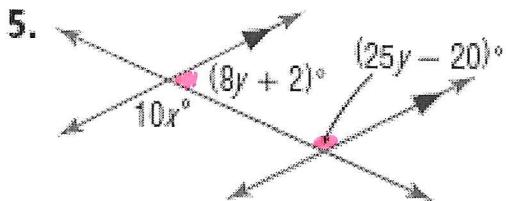
$$3(23) = 69^\circ$$

$$69 = 2x + 13 \text{ corresponding } \angle s \text{ are } \cong$$

$$56 = 2x$$

$$\boxed{28 = x}$$

Find x and y in each figure.

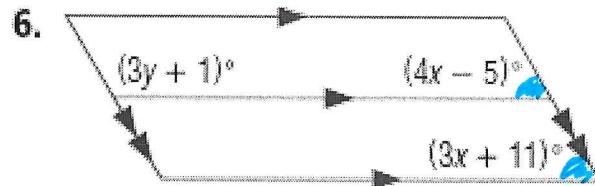


$$8y + 2 + 25y - 20 = 180 \text{ consecutive int. } \angle s \text{ are Suppl.}$$

$$33y - 18 = 180$$

$$33y = 198$$

$$\boxed{y = 6}$$

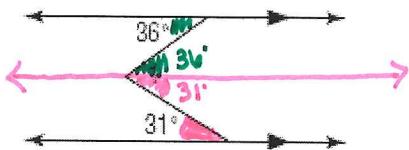


$$4x - 5 \cong 3x + 11 \text{ corresp. } \angle s \text{ are } \cong$$

$$x - 5 = 11$$

$$\boxed{x = 16}$$

7. Find the measure of $\angle 1$.



$$\angle 1 = 36 + 31$$

$$10x = 25y - 20 \text{ alt. int. } \angle s \text{ are } \cong$$

$$10x = 25(6) - 20$$

$$\boxed{x = 13}$$

consecutive int. $\angle s$ are suppl.

$$3y + 1 + 4x - 5 = 180$$

$$3y + 1 + 4(16) - 5 = 180$$

$$3y + 60 = 180$$

$$3y = 120$$

$$\boxed{y = 40}$$