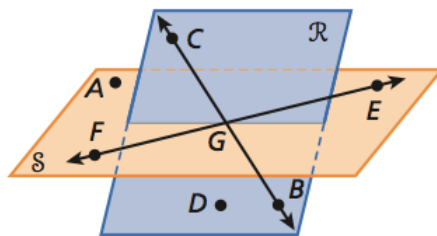


1. Name the following and be sure to use proper notation.

Several answers



- four coplanar points _____
- a line containing B and C _____
- a plane that contains A, G, and E _____
- a ray in plane S _____
- a line in the same plane as point A _____

2. Draw and label the following:

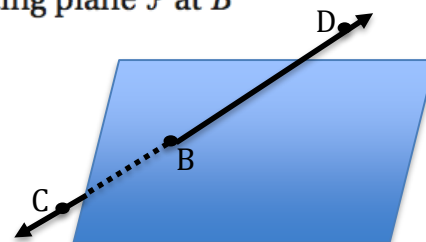
- a. a line containing P and Q



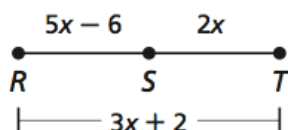
- b. a pair of opposite rays both containing C



- c. \overleftrightarrow{CD} intersecting plane \mathcal{P} at B

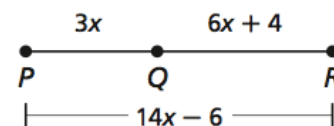


3. S is between R and T. Find RT.



RT = 8

4. Q is between P and R. Find PR and PQ.



PR = 22

PQ = 6

5. U is the midpoint of segment TV. $TU = 3x + 4$ and $UV = 5x - 2$. Find TU, UV, and TV.

TU = 13

UV = 13

TV = 26

6. E is the midpoint of segment DF. $DE = 9x$ and $EF = 4x + 10$. Find DE, EF, and DF.

DE = 18

EF = 18

DF = 36

7. \overline{KM} bisects $\angle JKL$, $m\angle JKM = (3x + 4)^\circ$, and $m\angle MKL = (6x - 5)^\circ$. Find $m\angle JKL$.

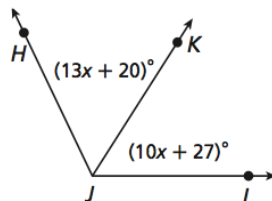
$m\angle JKL =$ 26

8. \overrightarrow{NP} bisects $\angle MNQ$, $m\angle MNP = (6x - 12)^\circ$, and $m\angle PNQ = (4x + 8)^\circ$. Find $m\angle MNQ$.

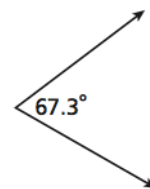
$m\angle MNQ =$ 96

- 8B. BX bisects $\angle ABC$.
 $m\angle ABX = 2x + 5$
 $m\angle ABC = 10x - 20$
 Find $m\angle ABC$.

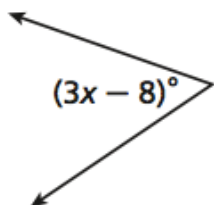
$m\angle ABC =$ 30

9. $m\angle HJL = 116^\circ$. Find $m\angle HJK$ **89**

10. Find the supplement and complement of the angle.

Supplement = **112.7**Complement = **22.7**

11. Find the supplement and complement of the angle.

Supplement = **188 - 3x**Complement = **98 - 3x**

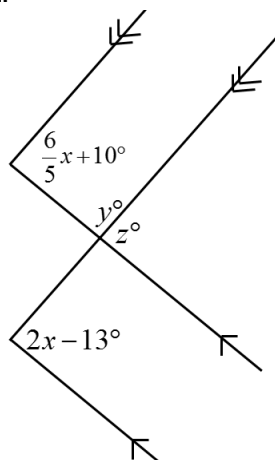
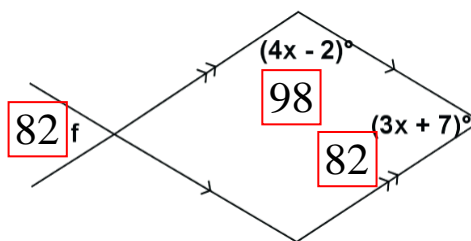
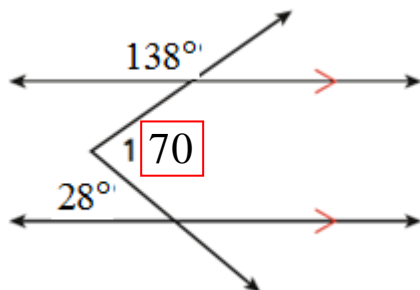
12. An angle measures 5 degrees more than 4 times its complement. Find the measure of the complement.

Complement = **17**13. Find the value of x , y and z .

$x = 28.75$

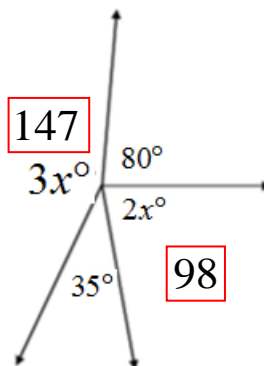
$y = 135.5$

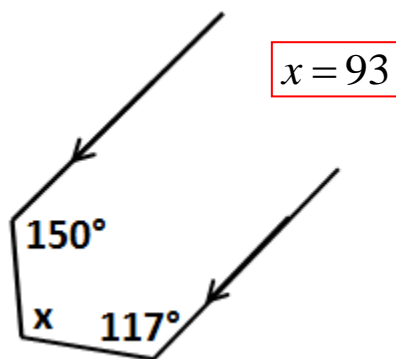
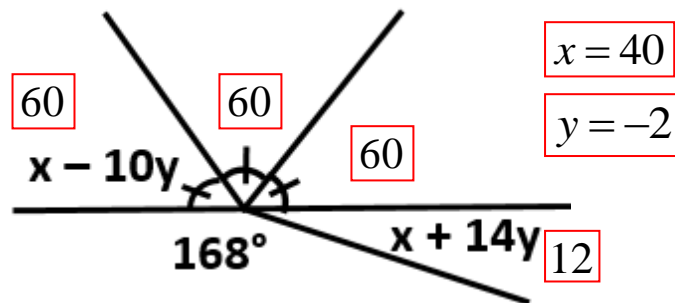
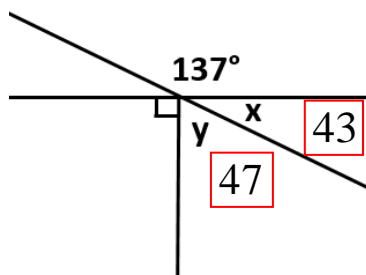
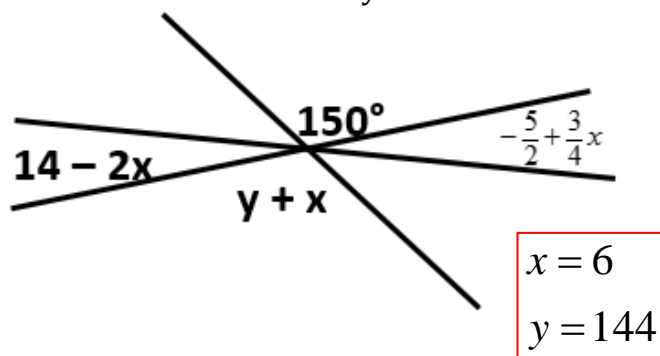
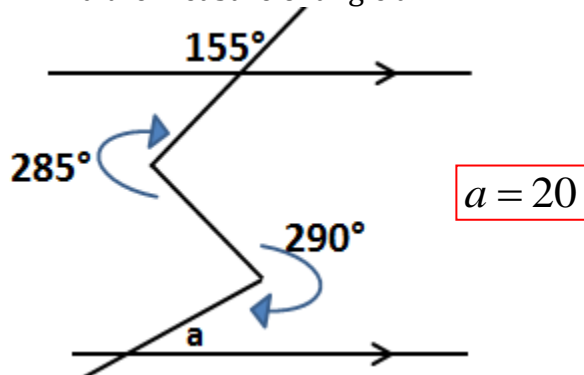
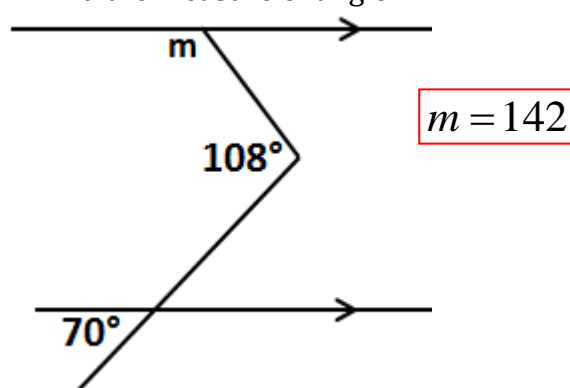
$z = 44.5$

14. Solve for $\angle f$ and each other angle that has information in it.15. Find $m\angle 1$ 

16. Find the measure of each missing angle

$x = 49$



17. Find the value of x .18. Find the value of x and y and each angle measure.19. Find the value of x and y .20. Find the value of x and y .21. Find the measure of angle a .22. Find the measure of angle m .

Constructions

23. Draw a 65° angle

- Label it $\angle MPO$
- Use a compass to copy the angle to $\angle M'P'O'$
- Bisect the original angle using a compass
- Mark any congruent parts

24. Draw segment $AB = 14$ cm

- Create the perpendicular bisector of segment AB using a compass
- Label the midpoint as R
- Mark any congruent parts on segment AB .

25. Use your compass to construct an equilateral triangle.

- Mark any congruent parts.
- Give specific instructions that would tell someone else how to create an equilateral triangle.

#23 – 25 check with teacher