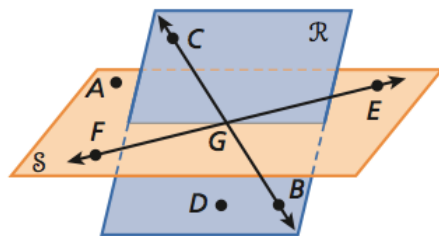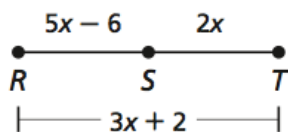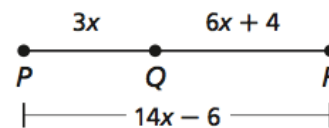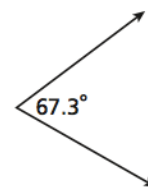|	
1. Name the following and be sure to use proper notation. a. four coplanar points_____ b. a line containing B and C _____ c. a plane that contains A, G, and E_____ d. a ray in plane S _____ e. a line in the same plane as point A _____	2. Draw and label the following: a. a line containing P and Q b. 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 = _____	4. Q is between P and R. Find PR and PQ. PR = _____ PQ = _____
5. U is the midpoint of segment TV. TU = 3x + 4 and UV = 5x – 2. Find TU, UV, and TV. TU = _____ UV = _____ TV = _____	6. E is the midpoint of segment DF. DE = 9x and EF = 4x + 10. Find DE, EF, and DF. DE = _____ EF = _____ DF = _____
7. $\overrightarrow{KM}$ bisects $\angle JKL$, $m\angle JKM = (3x+4)°$, and $m\angle MKL = (6x-5)°$. Find $m\angle JKL$. $m\angle JKL$ = _____	8. $\overrightarrow{NP}$ bisects $\angle MNQ$, $m\angle MNP = (6x-12)°$, and $m\angle PNQ = (4x+8)°$. Find $m\angle MNQ$. $m\angle MNQ$ = _____
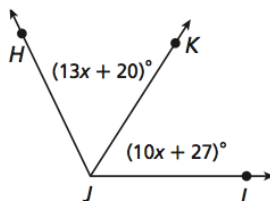
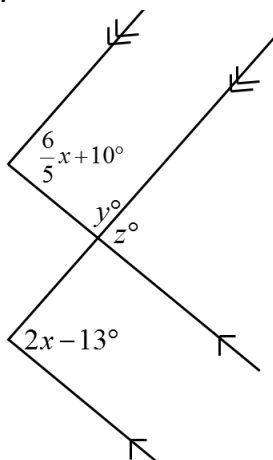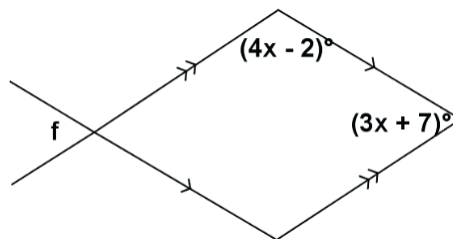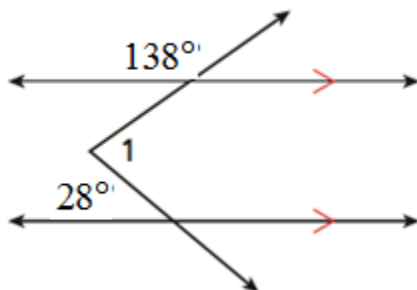| 9. m∠HJL = 116°. Find m∠HJK	10. Find the supplement and complement of the angle.
H _(13x + 20)°_ K _(10x + 27)°_ J L	67.3° Supplement = _____ Complement = _____
11. Find the supplement and complement of the angle. _(3x – 8)°_ Supplement = _____ Complement = _____	12. An angle measures 5 degrees more than 4 times its complement. Find the measure of the complement. Complement = _____
13. Find the value of x, y and z. $\frac{6}{5}x + 10°$ _y°_ _z°_ $2x - 13°$	14. Solve for ∠f and each other angle that has information in it. _(4x - 2)°_ f _(3x + 7)°_
15. Find m∠1 138° 1 28°	16. Find the measure of each missing angle 3x° 80° 2x° 35°
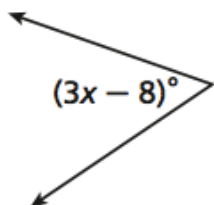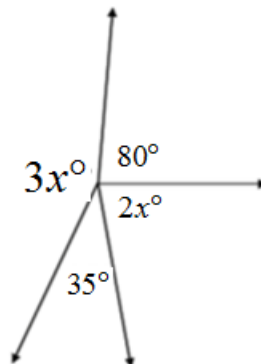
17. Find the value of x.	18. Find the value of x and y and each angle measure.
150° x 117°	x − 10y 168° x + 14y
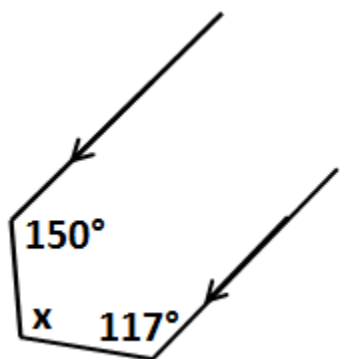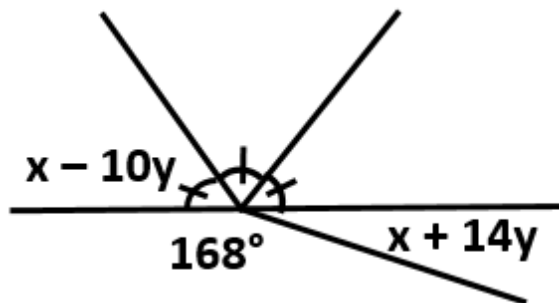
19. Find the value of x and y.	20. Find the value of x and y.
137° x y	150° 14 − 2x $-\frac{5}{2}+\frac{3}{4}x$ y + x
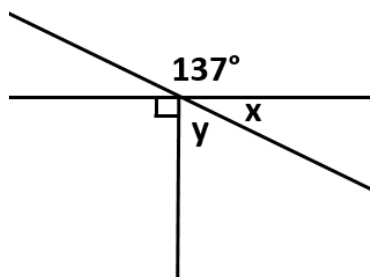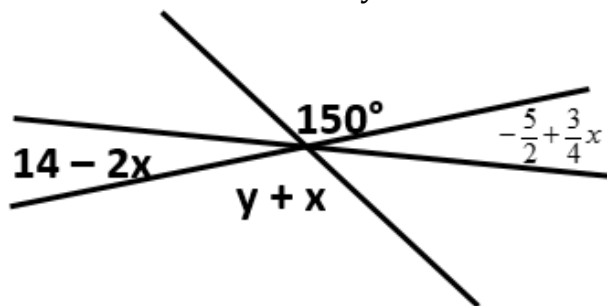
21. Find the measure of angle a.	22. Find the measure of angle m.
155° 285° 290° a	m 108° 70°
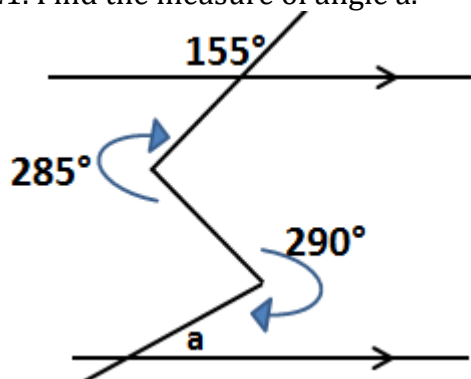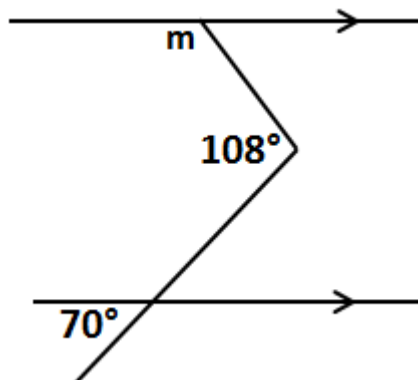
Constructions

| 23. Draw a 65° angle
- Label it ∠MPO
- Use a compass to copy the angle to ∠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. |