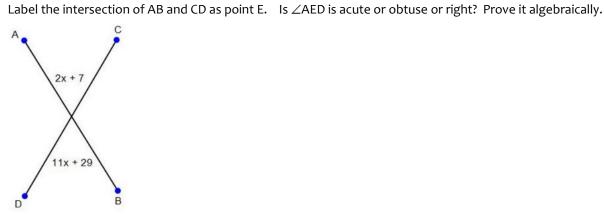


&



3.

_____ & _____

- 4. Triangle LUV has vertices at L(-3. -3), U(3, 5), V(1, -6).
 - a. Length of LU = _____

b. Length of UV = _____

c. Length of LV = _____

Midpoint of LU _____

Midpoint of UV _____

____ Midpoint of LV _____

d. If U is the midpoint of LUK, what are the coordinates of K?

5. Draw, name and notate the figure:

- a. The ray with initial point B that contains points A and C
- b. The line RP bisects segment ST.
- c. On a line segment, C is the midpoint of AB, and D is the midpoint of CB.
- d. Angle POW and angle COW are a linear pair.
- 6. Draw segment AB with midpoint M. Find the length of MB if AM = 3x + 7 and AB = 14x 2.

- 7. Using the figure, name the following:
- a. Linear Pairs:
 - a) \angle FGA and \angle _____
 - b) \angle EGD and \angle _____
- b. Adjacent angles that are <u>not</u> a linear pair.

 \angle FGE and \angle _____

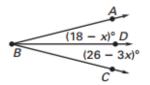
- c. Vertical angles:
 - a) \angle BGA and \angle _____
 - b) \angle AGF and \angle _____
- d. Three collinear points:

Point D, Point G, and Point _____

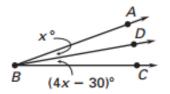
e. Three noncollinear points:

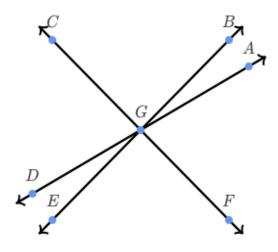
Point C, Point G, and Point _____

8. In the figure below, ray BD bisects $\angle ABC$. Find m $\angle ABC$.

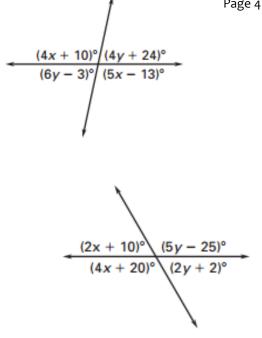


9. In the figure below, $m \angle ABC = 50^\circ$. Find the measure of each angle.





10. In the figure to the right, find the value of x and y.



11. In the figure to the right, find the value of x and y.

12. Two angles are supplementary. One angle is 17.63° less than the other. Find the two angles.

13. Solve the following equation: 2(4x - 5) - 3(2x - 4) = 2x + 2

14. On segment AD, find the coordinates of the midpoint, M, if A(2, -6) and D(4, 9)

15. On segment WX, W(2, 5) and M(-4, 12) Find the coordinates of endpoint X.

Bonus: In the figure to the right, QT bisects \angle SQR, and ray QS bisects \angle PQR.

| (A) lir | near pair | © adja | cent | | | © со | omplementary | (G) none |
|---|--|--------|--------|---|----|--------|--------------|----------|
| ® ve | ertical | D cong | gruent | | | (Ē) si | upplementary | |
| Use the codes above to fill in all that apply to each angle pair: | | | | | | | 1 | |
| a. ∠ | ∠SQT and ∠RQT | are: | A B | © | DE | Ð | G | 5 |
| b. ∠ | \angle PQS and \angle RQ | T are: | A B | © | DE | Ð | G | |
| c. ∠ | \angle PQS and \angle SQI | R are: | A B | © | DE | Ē | G | / |
| d. It | If m \angle PQT = 3.2x + 51.6, find the value of x | | | | | | | P |

Q