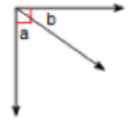
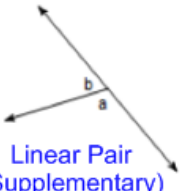
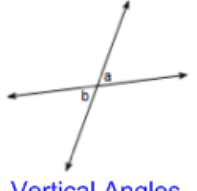
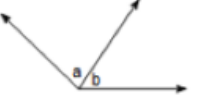
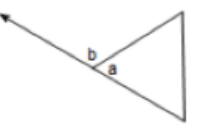

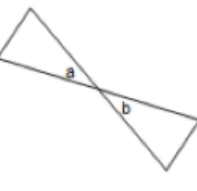
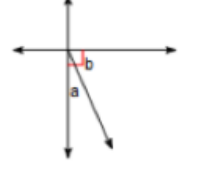
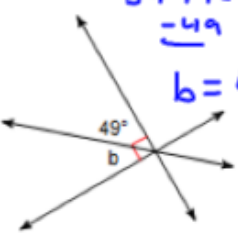
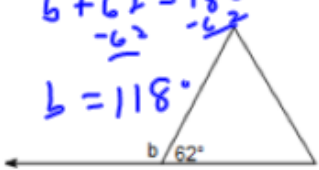
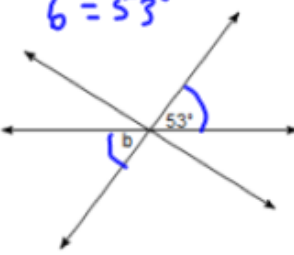
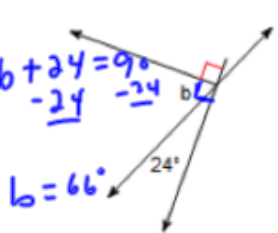
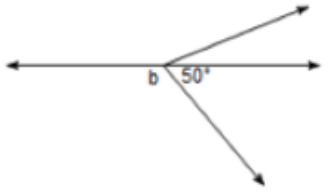
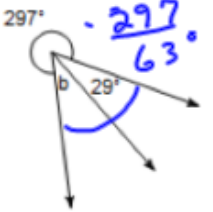
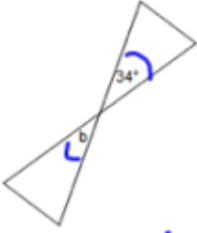
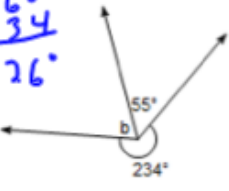


1.5 Practice Solutions

Name the relationship: Complementary, Linear Pair (Supplementary), Vertical, or Adjacent			
1.  Complementary Angles	2.  Linear Pair (Supplementary)	3.  Vertical Angles	4.  Adjacent Angles
5.  Linear Pair (Supplementary)	6.  Adjacent Angles	7.  Vertical Angles	8.  Complementary Angles

Find the measure of angle b.			
9.  $\begin{array}{r} b + 49 = 90 \\ -49 \quad -49 \\ \hline b = 41^\circ \end{array}$	10.  $\begin{array}{r} b + 62 = 180 \\ -62 \quad -62 \\ \hline b = 118^\circ \end{array}$	11.  $b = 53^\circ$	12.  $\begin{array}{r} b + 24 = 90 \\ -24 \quad -24 \\ \hline b = 66^\circ \end{array}$
13.  $\begin{array}{r} b + 50 = 180 \\ -50 \quad -50 \\ \hline b = 130^\circ \end{array}$	14.  $\begin{array}{r} 360 \\ -297 \\ \hline 63^\circ \\ b + 29 = 63 \\ -29 \quad -29 \\ \hline b = 34^\circ \end{array}$	15.  $b = 34^\circ$	16.  $\begin{array}{r} 360 \\ -234 \\ \hline 126^\circ \\ b + 55 = 126 \\ -55 \quad -55 \\ \hline b = 71^\circ \end{array}$

For 17-26, use the picture to determine if you can make the following conclusions from the information shown. YES or NO

17. $\angle J \cong \angle D$ Yes

18. $\angle JAC \cong \angle DAC$ No, it may be true but not shown in picture!

19. $m\angle JCA = m\angle DCA$ No, it may be true but not shown in picture!

20. $m\angle JCA + m\angle ACD = 180$ Yes

21. $\angle JCA$ is a right angle. No, it may be true but not shown in picture!

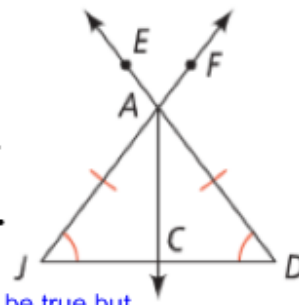
22. $\overline{AJ} \cong \overline{AD}$ Yes

23. $\angle JAE$ and $\angle EAF$ are supplementary. Yes

24. $\angle EAF$ and $\angle JAD$ are vertical angles. Yes

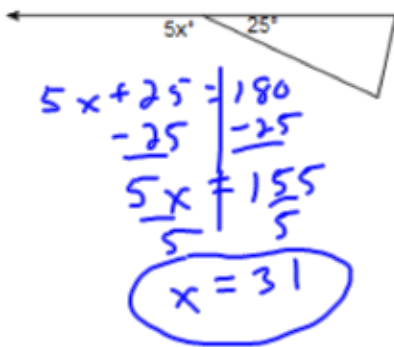
25. \overline{AC} is the angle bisector of $\angle JAD$.

26. C is the midpoint of \overline{JD} . No, it may be true but not shown in picture!

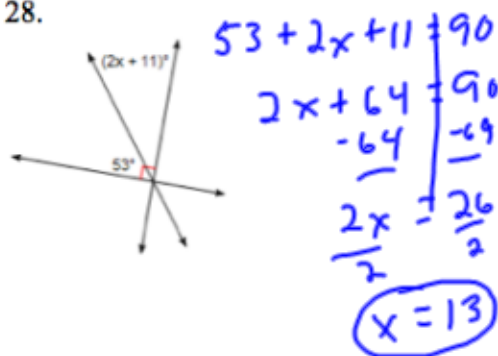


Find the value of x .

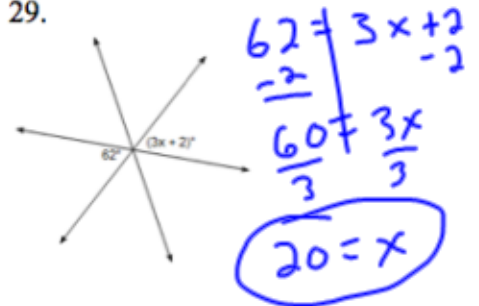
27.



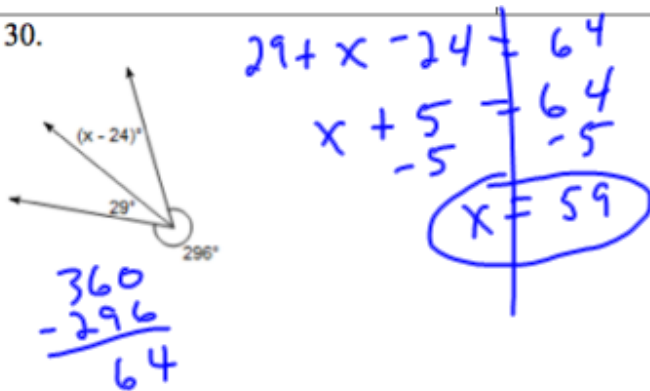
28.



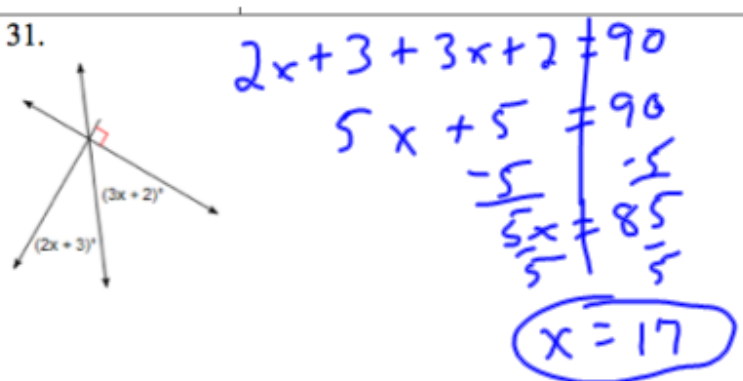
29.



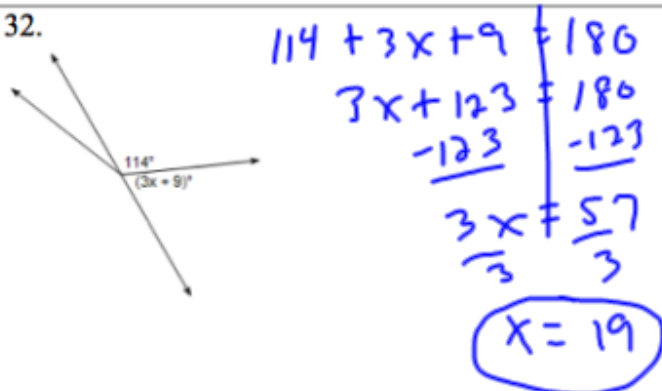
30.



31.



32.



33.

