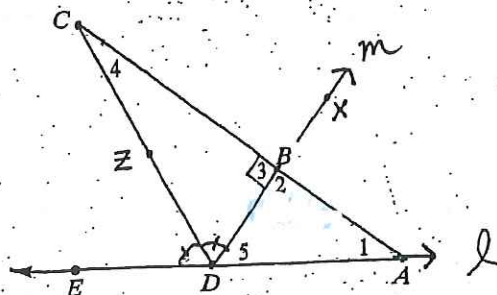
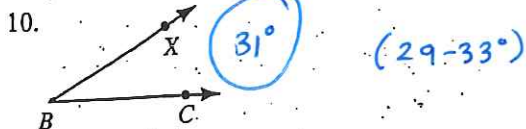


9, use the diagram at right to answer the questions. (1 pt ea)

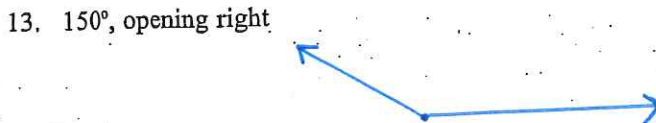
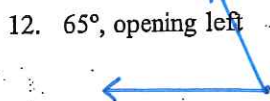
1. Give another name for \overrightarrow{DA} l, \overrightarrow{ED}
2. What is the vertex of $\angle 2$ B
3. Give another name for $\angle 3$ $\angle CBD$
4. True or False? $\overline{CZ} \cong \overline{CD}$ *false*
5. Name a pair of adjacent angles. $\angle EDZ$ & $\angle ZDB$
6. What is the intersection of $\angle ZDB$ and $\angle ADB$ \overrightarrow{DB}
7. Name an angle that has been bisected (careful) $\angle EDB$
8. Name a linear pair $\angle CBD$ & $\angle ABD$
9. Name a right angle $\angle CBD$



10-11, use a protractor to measure each angle (1 pt ea)



12-13, use a protractor to draw an angle with the indicated measure. (2 pt ea)



14-17, Fill in the blank (1 pt ea)

14. When an angle measures less than 90 it is classified as acute
15. The Geometry term which means "beside" or "next to" is adjacent
16. When two angles sum to 180 they are supplementary
17. The intersection of two planes always forms a line

18-19, Use the diagram at right to answer the questions. (2 pt ea)

18. If $m\angle AEB = 75$ and $m\angle AEC = 100$, find $m\angle BEC$

25°

19. If \overrightarrow{EB} bisects $\angle AED$ and $m\angle DEB = 61^\circ$, find $m\angle AED$

122°

20. If $m\angle AEB = 3x + 5$, $m\angle BEC = 2x - 3$ and $m\angle AEC = 72^\circ$, find $m\angle BEC$

$$(3x + 5) + (2x - 3) = 72$$

$$x = 14$$

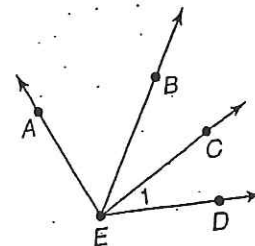
25°

21. If \overrightarrow{EB} bisects $\angle AED$, $m\angle DEB = 2x + 25$ and $m\angle AED = 3x + 46$, find $m\angle AEB$

$$2(2x + 25) = 3x + 46$$

$$x = -4$$

17°



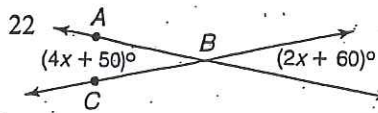
$$(5x+10) + (7x+20) = 180$$

$$x = 12.5$$

$$\angle ABC = 55.5^\circ$$

NOT TRUE
 $7x+20 = 5x+10$

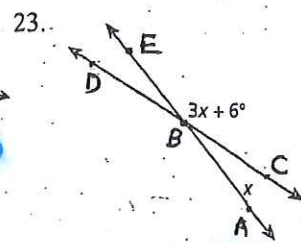
#22-24, Find the measure of $\angle ABC$ (you will have to solve for x first) (2 pt ea)



$$4x+50 = 2x+60$$

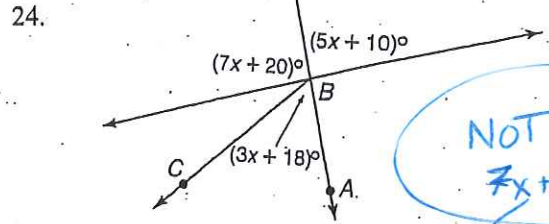
$$x = 5$$

$$\angle ACB = 70^\circ$$



$$3x+6 + x = 180$$

$$x = 43.5$$



#25-31, Use diagram at right (1 pt ea)

25. Is $\angle AXC$ a straight angle? *yes*

26. Name a point on \overline{AC} that is not on \overline{AC} *Z*

27. Is point Y interior of $\angle 3$? *yes*

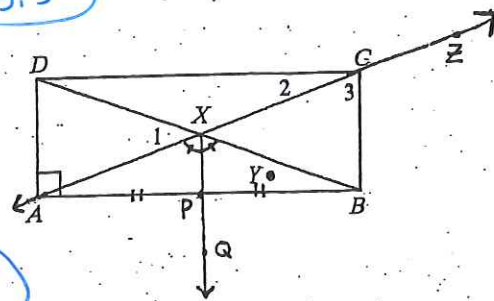
28. Is $\angle ADC$ a right angle? *no (no L)*

29. Name three collinear points *A, P, B*

30. Which angle is supplementary to $\angle AXD$ *$\angle DXC$*

31. Name the vertex and sides of $\angle 1$: (2 pt) vertex: *X*

sides: \overrightarrow{XD} , \overrightarrow{XA}
 (\overrightarrow{XD})



32. Solve for x if $\angle R$ is complementary to $\angle Q$, $m\angle R = 7x + 4$ and $m\angle Q = 4x + 9$ (2 pt)

$$7x+4 + 4x = 90$$

$$x = 7$$

33. The measure of an angle is 44 more than the measure of its supplement. Find the measure of both angles. (2 pt)

$$x + (44+x) = 180$$

$$x = 68$$

$$68^\circ \text{ \& } 112^\circ$$

