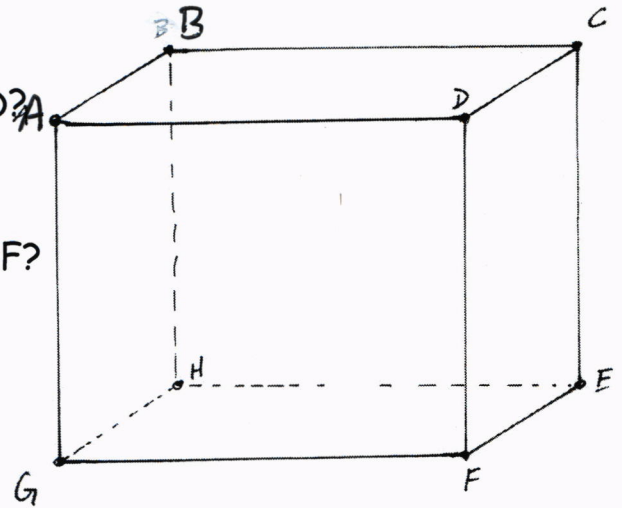


Naming and intersections

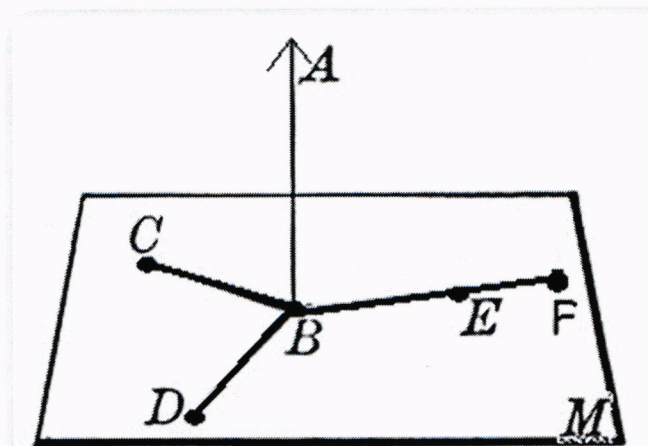
UNIT 1

STATION 1

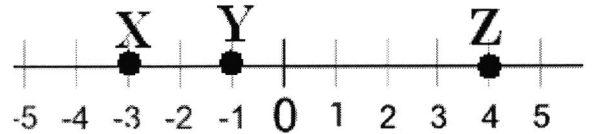
1. What is the intersection of planes ABC and EFD?
2. What is the intersection of planes FGH and ADF?
3. Which point is coplanar with B, C and E?
4. Which point is coplanar with A, B and H?
5. What is the intersection of \overleftrightarrow{AB} and \overleftrightarrow{GA} ?



6. What is another name for \overline{BE} ?
7. What is the intersection of \overline{EF} and \overline{AB} ?
8. Name 3 collinear points.



9. What is the length of segment XZ?



10. What is the length of segment YZ?

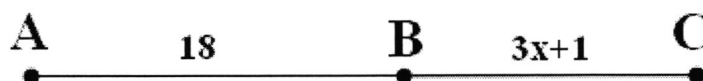
11. If $AM = 20$ and $MB = 18$, what is the length of AB ?



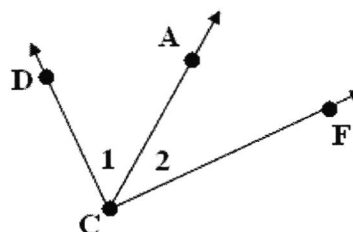
12. Points X, Y and Z are collinear. Y is between X and Z. If $\overline{XZ} = 20$, and $\overline{XY} = 8$, how long is \overline{YZ} ?

Hint: draw a picture.

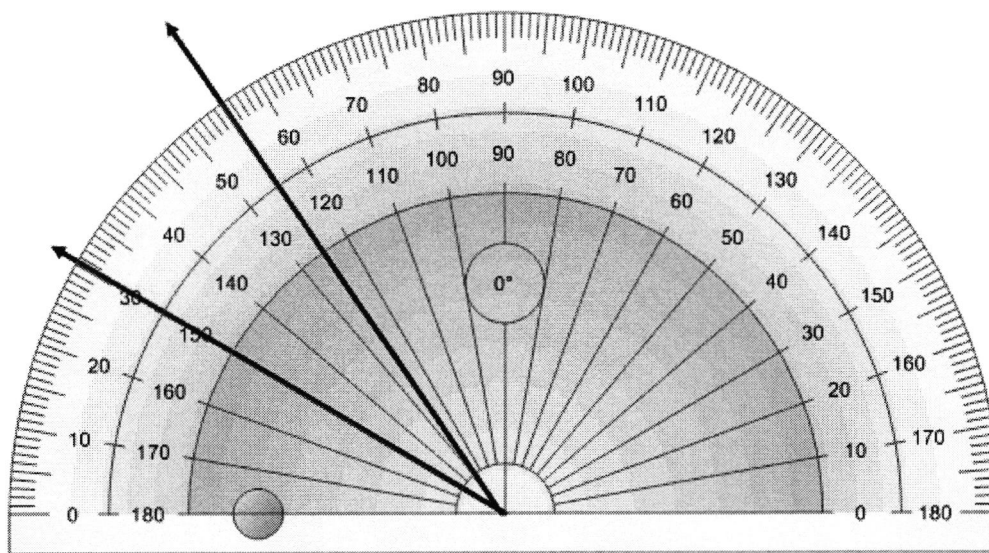
13. If $\overline{AB} = 18$, and $\overline{AC} = 25$, find the value of x :



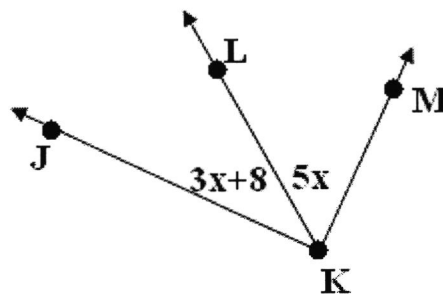
14. Give another name for angle 1:



15. What is the measure of the angle shown:

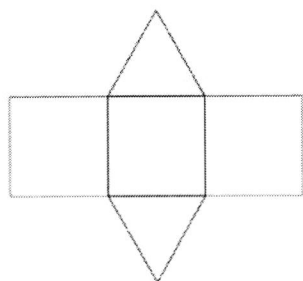


16. If $m\angle JKM = 88$, find X .

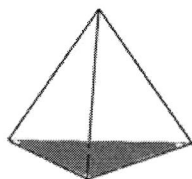


17. Now that you know X , what is $m\angle LKM$?

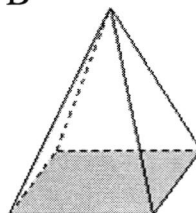
18. Which prism does this net represent?



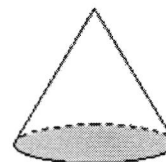
A



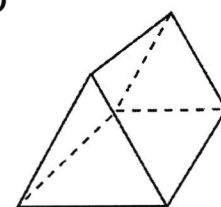
B



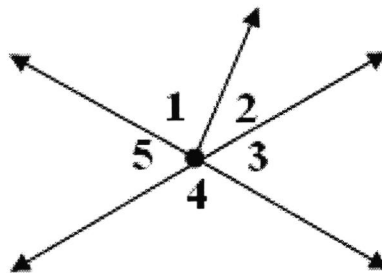
C



D



19. Name a pair of vertical angles
20. Name a pair of supplementary angles.



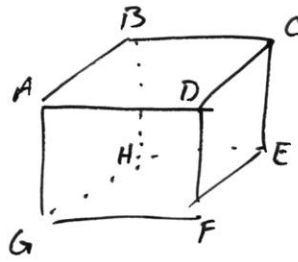
21. If \overline{XY} bisects $\angle AXB$, and $m\angle AXB = 100$, what is $m\angle AXY$?
Hint: draw a picture

22. What is the midpoint of the segment with endpoints at $(5, 8)$ and $(1, 4)$?

23. What is the distance between $(-2, 1)$ and $(4, 9)$?

①

- ① ABC and EFD
top right



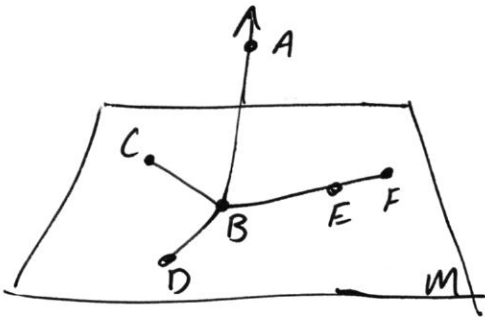
- ② FGH and ADF
Bottom front



- ③ B, C, E and ... H

- ④ A, B, H, and ... G

- ⑤ \overleftrightarrow{AB} and \overleftrightarrow{GA} intersect at A

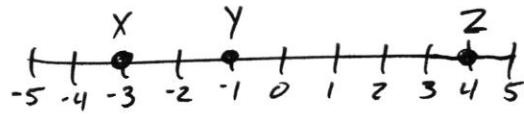


- ⑥ \overleftrightarrow{BE} is also called \overleftrightarrow{EB} \overleftrightarrow{EF} \overleftrightarrow{FE}
 \overleftrightarrow{FB} or \overleftrightarrow{BF}

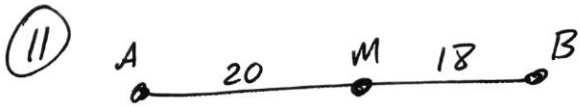
- ⑦ \overleftrightarrow{EF} and \overleftrightarrow{AB} intersect at B

- ⑧ B, E, and F are the only collinear points

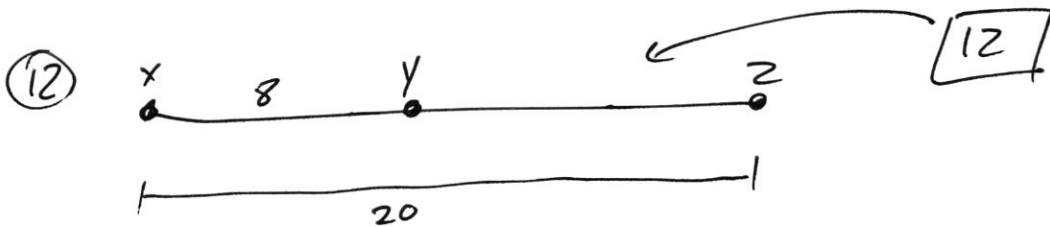
⑨ \overline{XZ} is 7 units long



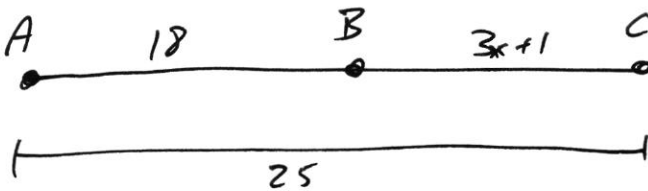
⑩ \overline{YZ} is 5 units long



$$\overline{AB} = 38$$

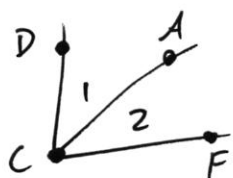


⑬



$$\begin{aligned} 3x+1+18 &= 25 \\ 3x+19 &= 25 \\ -19 \quad -19 & \\ \hline \frac{3x}{3} &= \frac{6}{3} \\ x &= 2 \end{aligned}$$

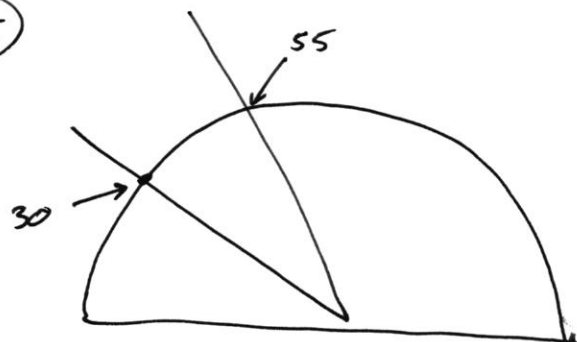
14



angle 1 is also called
 $\angle DCA$ or $\angle ACD$

3

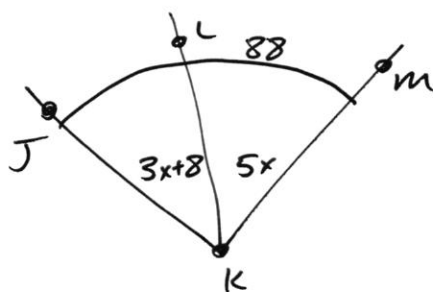
15



$$55 - 30 = 25$$

$$\boxed{25^\circ}$$

16



$$3x + 8 + 5x = 88$$

$$8x + 8 = 88$$

$$\begin{array}{r} 8x + 8 = 88 \\ -8 \quad -8 \\ \hline 8x = 80 \end{array}$$

$$x = 10$$

17

$$\angle LKM = 5x$$

$$5 \cdot 10 = 50$$

18

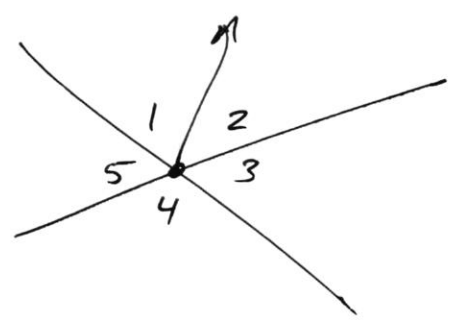
D

19

Vertical Angles

5 and 3

~~1 and 5~~
~~2 and 4~~

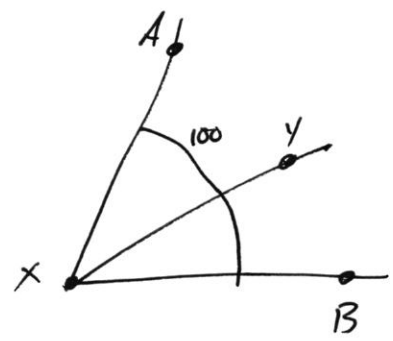


20

Supplementary:

3 and 4 or 5 and 4

21



$$m\angle AXY = 50^\circ$$

22

$$\left(\frac{5+1}{2}, \frac{8+4}{2} \right)$$

$$\frac{6}{2}, \frac{12}{2}$$

$$\boxed{(3, 6)}$$

(5, 8) and (1, 4)

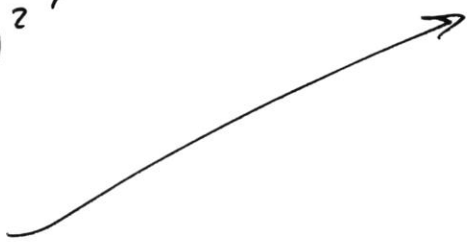
23

~~2, 1~~ (-2, 1) and (4, 9)

$$\sqrt{(9-1)^2 + (4-(-2))^2}$$

$$\sqrt{8^2 + 6^2}$$

$$\sqrt{64 + 36}$$



$$\sqrt{100}$$

$$\boxed{10}$$