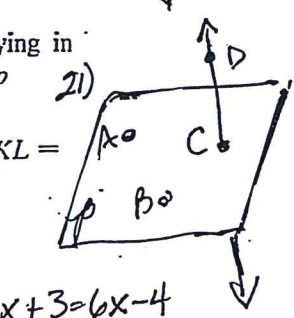
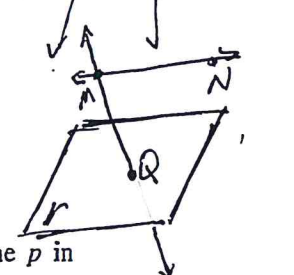
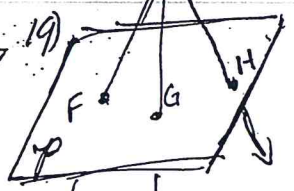
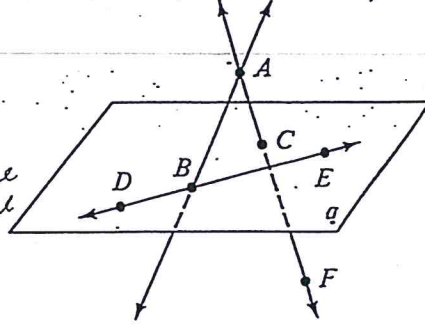
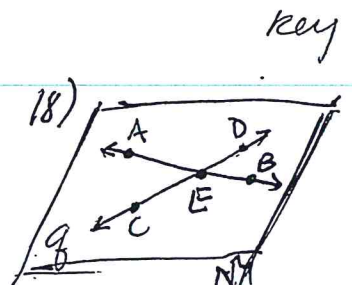
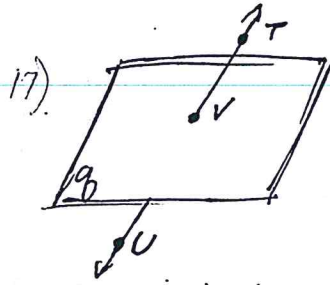
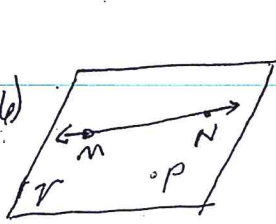


Geometry Worksheet 16)
Chapter 1 Review

Part A

True or false?

7. \overrightarrow{DE} is contained in plane q . *true*
8. \overrightarrow{AC} and \overrightarrow{FA} are the same line. *true*
9. \overrightarrow{AB} and \overrightarrow{DE} intersect in point E . *false*
10. $B, C,$ and E are noncoplanar. *false*
11. Point B is the intersection of \overrightarrow{AB} and plane q . *true*
12. The intersection of \overrightarrow{AF} and plane q is point C . *true*
13. \overrightarrow{CF} ~~does not~~ passes through point E . *false*
14. Point A and plane q do not intersect. *true*
15. \overrightarrow{DE} contains point B . *true*

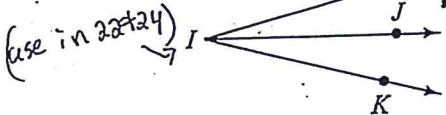
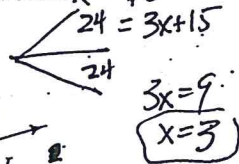


Draw and label each figure described below. Use a straightedge.

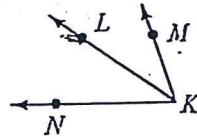
16. \overrightarrow{MN} lying in plane r and point P in plane r but not on \overrightarrow{MN}
18. \overrightarrow{AB} and \overrightarrow{CD} lying in plane q such that \overrightarrow{AB} and \overrightarrow{CD} intersect at point E
20. \overrightarrow{MN} not intersecting plane r with \overrightarrow{MO} intersecting plane r in point Q

17. \overrightarrow{TU} intersecting plane q in point V
19. $\overrightarrow{EF}, \overrightarrow{EG},$ and \overrightarrow{EH} intersecting plane p in points $F, G,$ and $H,$ respectively
21. noncollinear points $A, B,$ and C lying in plane p with \overrightarrow{DC} intersecting plane p

22. Given: \overrightarrow{IJ} bisects $\angle HIK$, $m\angle HIK = 48^\circ$ and $m\angle JIK = 3x + 15$. Find x .



23. Given: \overrightarrow{KL} bisects $\angle MKN$, $m\angle MKL = 5x + 3$, and $m\angle LKN = 6x - 4$. Find $m\angle MKL$. [1.4]



$$5x + 3 = 6x - 4$$

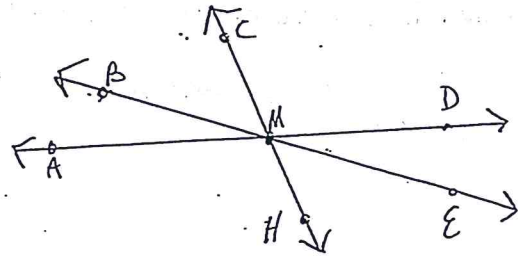
$$3 = x - 4$$

$$7 = x$$

$$m\angle MKL = 5(7) + 3 = 38^\circ$$

24. $m\angle HIK = 5x - 18$
 $m\angle H I J = 3x - 12$
 $m\angle J I K = 22$
 Find $m\angle H I K$

$$5(14) - 18 = 52^\circ$$



- a) Name two pairs of $\angle BMA$ & $\angle DME$
 a) vertical angles $\angle CMD$ & $\angle AMH$ + others
- b) linear pairs $\angle BMC$ & $\angle CME$
 $\angle AMH$ & $\angle HMD$ + others
- c) adjacent angles that are not linear pairs.
 $\angle HME$ & $\angle EMD$
 $\angle AMH$ & $\angle HME$ + others

- 26 Find the coordinate of the midpoint of \overline{GM} .
 The coordinate of G is -13
 and the coordinate of M is 18 .