

Geometry Worksheet
Vocab/Sketch Review

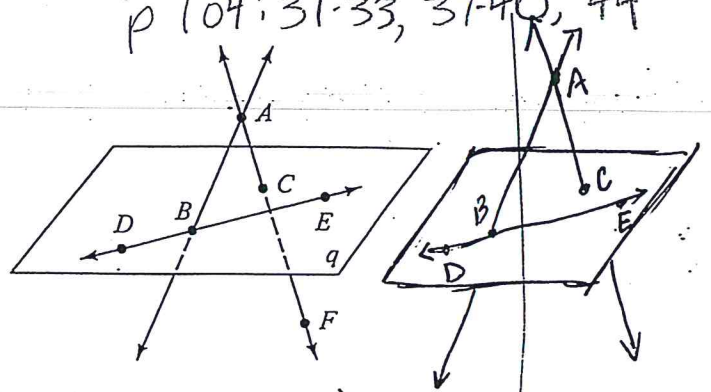
Due Mon-Tues,
Sept 23-24

pp 89-90: 1-7, 9-11, 13, 15,
27, 28, 30, 39, 40
p 98: 17-18, 20-25
p 104: 31-33, 37-40, 44

Part A

True or false?

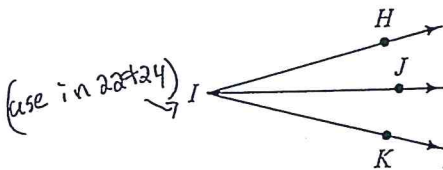
7. \overleftrightarrow{DE} is contained in plane q .
8. \overleftrightarrow{AC} and \overleftrightarrow{FA} are the same line.
9. \overleftrightarrow{AB} and \overleftrightarrow{DE} intersect in point C .
10. B , C , and E are noncoplanar.
11. Point B is the intersection of \overleftrightarrow{AB} and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



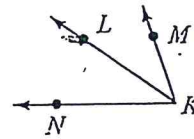
Draw and label each figure described below. Use a straightedge. (on your own paper)

16. \overleftrightarrow{MN} lying in plane r and point P in plane r but not on \overleftrightarrow{MN}
17. \overleftrightarrow{TU} intersecting plane q in point V
18. \overleftrightarrow{AB} and \overleftrightarrow{CD} lying in plane q such that \overleftrightarrow{AB} and \overleftrightarrow{CD} intersect at point E
19. \overleftrightarrow{EF} , \overleftrightarrow{EG} , and \overleftrightarrow{EH} intersecting plane p in points F , G , and H , respectively
20. \overleftrightarrow{MN} not intersecting plane r with \overleftrightarrow{MQ} intersecting plane r in point Q
21. noncollinear points A , B , and C lying in plane p with \overleftrightarrow{DC} intersecting plane p

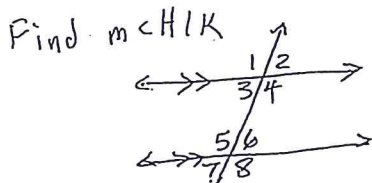
22. Given: \overleftrightarrow{IJ} bisects $\angle HIK$, $m\angle HIK = 48^\circ$ and $m\angle JIK = 3x + 15$. Find x .



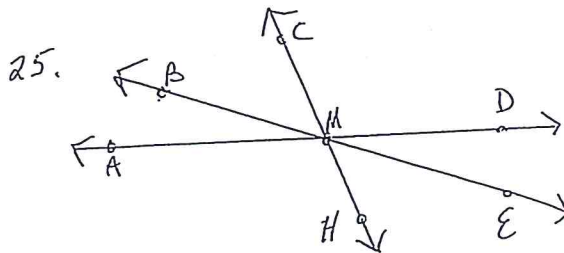
23. Given: \overleftrightarrow{KL} bisects $\angle MKN$, $m\angle MKL = 5x + 3$, and $m\angle LKN = 6x - 4$. Find $m\angle MKL$.



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



26. Explain why $\angle 1 \cong \angle 8$ if you assume that corresponding angles are congruent when parallel lines are cut by a transversal. You can accept that V.A. are \cong (proved in class). (Hint: focus on 3 useful angles.)



- a) Name two pairs of
 - a) vertical angles
 - b) linear pairs
 - c) adjacent angles that are not linear pairs.