

6.3 Parallel Lines and Angle Relationships

Line & Plane Relationships

Worksheet

Name Key

1. Name all segments parallel to \overline{GE} .

\overline{CL} , \overline{BK} , \overline{RA}

2. Name all segments parallel to \overline{BE} .

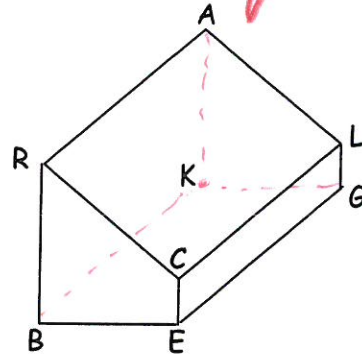
\overline{KG}

3. Name two pair of skew lines.

$\overline{RC} \not\parallel \overline{KG}$, $\overline{AL} \not\parallel \overline{BE}$

4. Name a pair of parallel planes.

Plane $BCE \parallel$ Plane AKL



Tell whether the lines are intersecting, parallel or skew.

5. \overleftrightarrow{DG} and \overleftrightarrow{BH} parallel

6. \overleftrightarrow{AB} and \overleftrightarrow{BC} intersecting

7. \overleftrightarrow{AC} and \overleftrightarrow{GT} skew

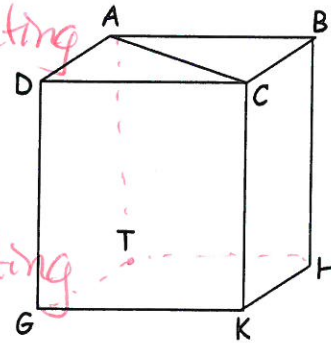
8. \overleftrightarrow{TH} and \overleftrightarrow{DG} skew

9. \overleftrightarrow{AT} and \overleftrightarrow{CK} parallel

10. \overleftrightarrow{AC} and \overleftrightarrow{CK} intersecting

11. \overleftrightarrow{BH} and \overleftrightarrow{CB} intersecting

12. \overleftrightarrow{GK} and \overleftrightarrow{BH} skew



Write true or false

13. $\overleftrightarrow{CB} \parallel \overleftrightarrow{GH}$ True

14. $\overleftrightarrow{ED} \parallel \overleftrightarrow{HI}$ False

15. plane $AED \parallel$ plane FGH True

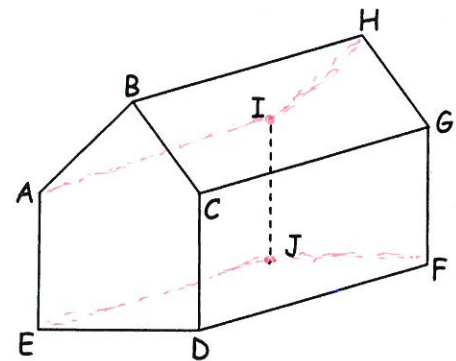
16. plane $ABH \parallel$ plane CDF False

17. \overleftrightarrow{AB} and \overleftrightarrow{HG} are skew True

18. \overleftrightarrow{AE} and \overleftrightarrow{BC} are skew False

19. \overleftrightarrow{CF} and \overleftrightarrow{AI} are skew True

20. \overleftrightarrow{CF} and \overleftrightarrow{AJ} are skew False



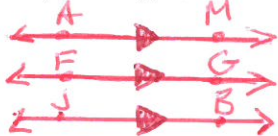
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Draw and label each of the following.

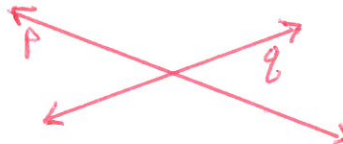
21. planes C and D intersect, and planes D and E intersect, but planes C and E do not intersect.

(see below)

22. $\overleftrightarrow{AM} \parallel \overleftrightarrow{FG} \parallel \overleftrightarrow{JB}$.

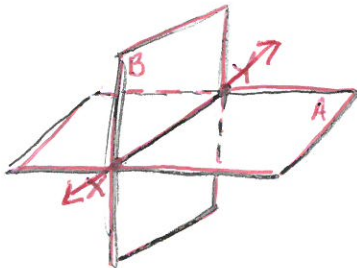


23. Draw line p intersecting line q .



24. Planes A and B intersecting in \overleftrightarrow{XY}

intersecting



25. a ray with endpoints M that passes through P



(21)

