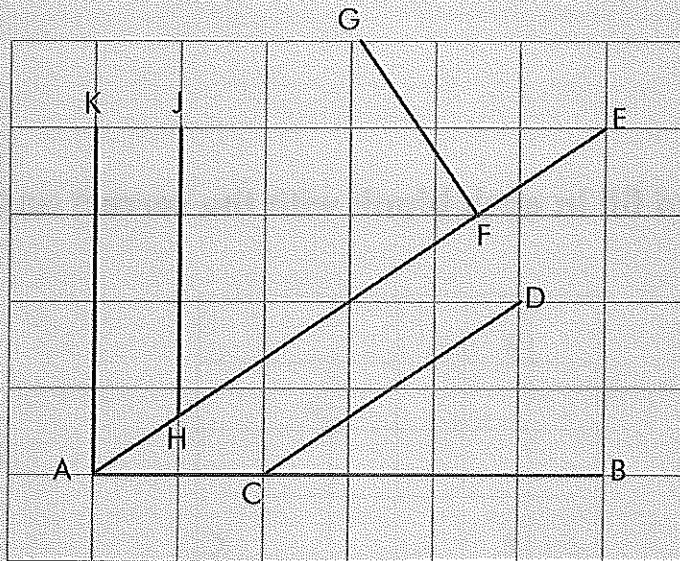# Unit 7: PERPENDICULAR AND PARALLEL LINES

Examples:

1. Identify all the perpendicular lines.

   $KA \perp AB$ and $GF \perp HE$

2. Identify all the parallel lines.

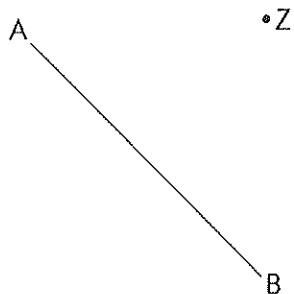 $HE \parallel CD$ and $KA \parallel JH$
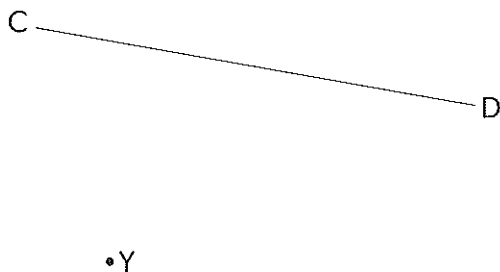
3. Identify all vertical lines.

   KA and JH

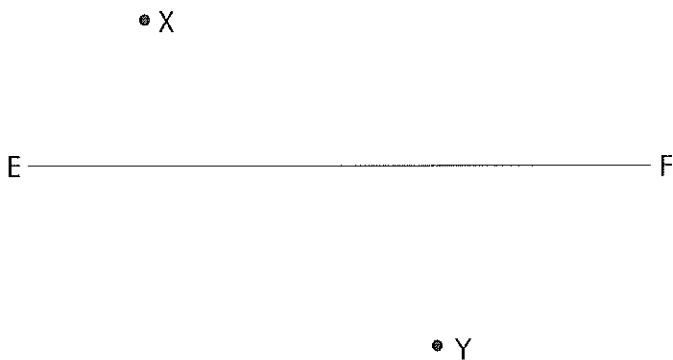4. Identify all horizontal lines.

   AB

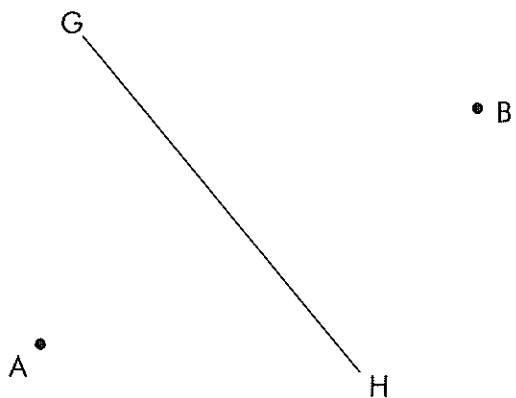1. Draw a line perpendicular to the line AB through the point Z.

A

•Z

B

2. Draw a line perpendicular to the line CD through the point Y.
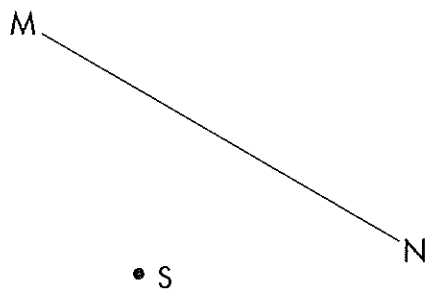
C

D

•Y

3. (a) Draw a line perpendicular to the line EF through the point X.

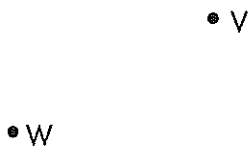(b) Draw a line perpendicular to the line EF through the point Y.

• X

E —————————————————— F

• Y

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4. (a) Draw a line perpendicular to line GH through the point A.

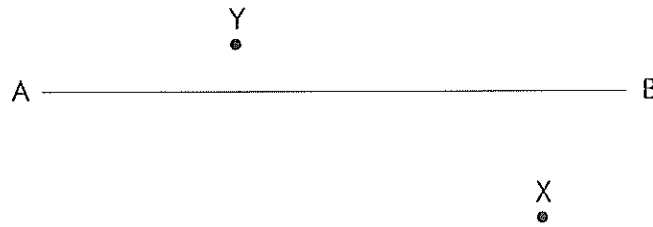   (b) Draw a line perpendicular to line GH through the point B.
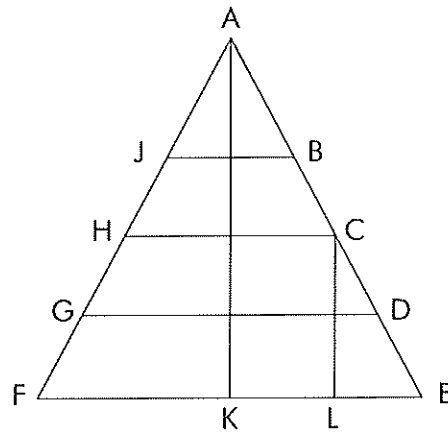
G

● B

A ●

H

5. Draw a line parallel to MN through the point S.

M

N

● S

6. Draw a pair of parallel lines through the points V and W.

● V

● W

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7. (a) Draw a line parallel to AB through the point X.

   (b) Draw a line parallel to AB through the point Y.
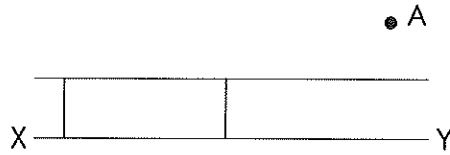
Y
•

A ———————————————————— B

X
•

8.

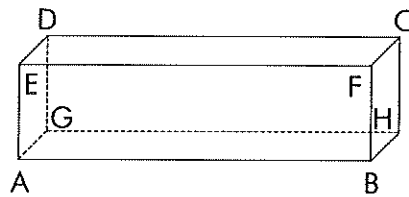(a) Identify all pairs of parallel lines in the figure above.

_____

(b) Identify all pairs of perpendicular lines in the figure above.

_____

9. The figure below shows a section of a brick wall.

   (a) Draw a vertical line through A to meet XY and label it as AB.

   (b) Draw a horizontal line through A and label it as AC.

   • A

   X ——————————————— Y

10. The figure below shows a rectangular fish tank.

    (a) Identify all the horizontal lines.   _____

    (b) Identify all the vertical lines.   _____

11. The figure on the right shows a box.

    (a) Line AB is a _____ line.

    (b) Line BC is a _____ line.

    (c) Line DC is a _____ line.

    (d) Line AD is a _____ line.

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