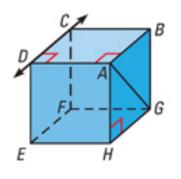
<b>Geometry</b> Notes Section 3.1 Identify Pairs of Lines and Angles
VOCABULARY
Parallel Lines: lines that never intersect & are coplanar
Skew Lines: lines that never intersect & noncoplanar
Parallel Planes: planes that never intersect
<u>Transversal</u> : a line that intersects 2 or more lines at 1 point each &
<u>Corresponding Angles:</u> angles on the same side on the transversal; 1 interior and 1 exterior angle; can not form a linear pair
<u>Alternate Interior Angles:</u> angles on opposite sides of the transversal; Both Interior angles
<u>Alternate Exterior Angles:</u> angles on opposite sides of the transversal; Both Exterior angles
<u>Consecutive Interior Angles:</u> angles on the same side of the transversal; Both interior angles

## **EXAMPLE 1** Think of each segment as part of a line. Which line(s) or plane(s) appear to fit the description?

- a) Line(s) parallel to CD and containing point A
- b) Line(s) skew to CD and containing point A
- c) Line(s) perpendicular to CD and containing point A



d) Plane(s) parallel to plane EFG and containing point A

**POSTULATE 13** If there is a line and a point not on the line, then there is exactly 1 line through the point parallel to the given line.

**<u>POSTULATE 14</u>** If there is a line and a point not on the line, then there is exactly 1 one through the point perpendicular to the given line.

