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THU

# Ch 12 ~ Surface Area & Volume

## 12.1 Solid Figures

→ take up space

Polyhedrons - solids w/ flat surfaces (polygons)

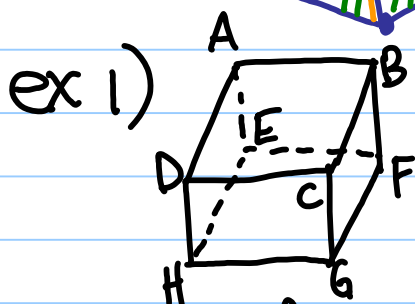
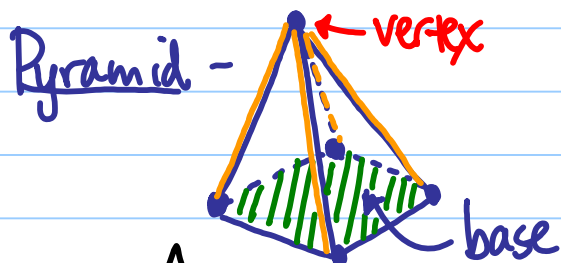
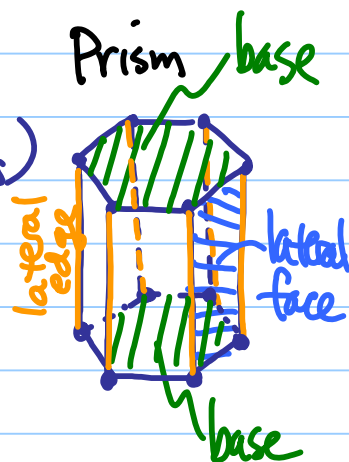
face - 2D polygonal surface

edge - intersection of two faces

Prism - solid w/ 2 faces, called bases (in parallel planes)

Lateral Faces - faces that are NOT the bases

\* Lateral Edges - intersection of two adjacent lateral faces



Name the faces, edges, & vertices.

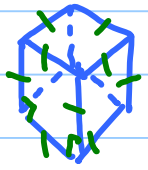
Faces: ABCD, EFGH, CDHG, ABFE, AEDH, BFGC

Edges: AB, BC, CD, DA, EF, FG, GH, HE, AE, BF, CG, DH

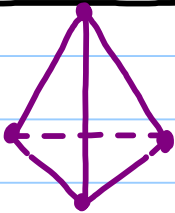
Vertices: A, B, C, D, E, F, G, H

Platonic Solid - regular polyhedron

Cube - special rectangular prism w/ square faces



Tetrahedron - triangular pyramid w/ all faces triangles



Cylinder - is a solid that is not a polyhedron.

→ bases: circle

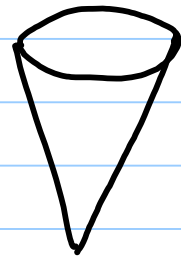
→ lateral surface: curved



Cone - solid that is not a polyhedron

→ base: circle

→ lateral surface: curved



Composite Solid - combination of two or more solids

ex 2)



Tetrahedron? No  
→ rectangular pyramid

not triangular