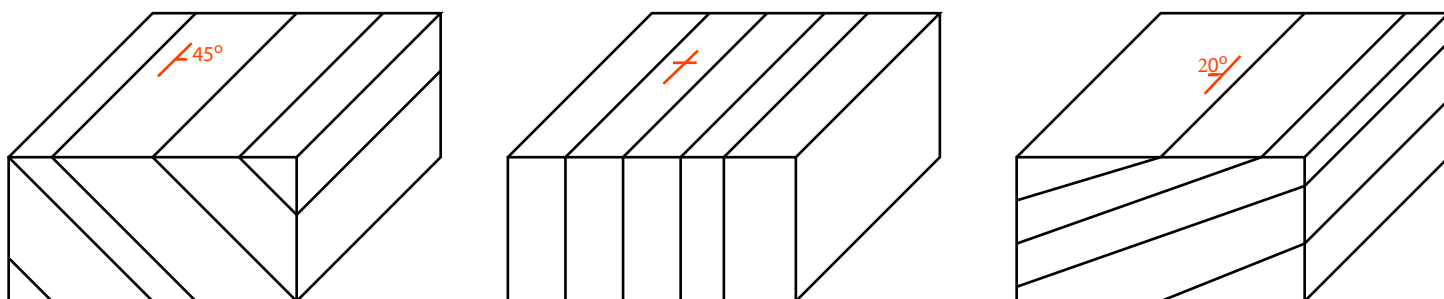
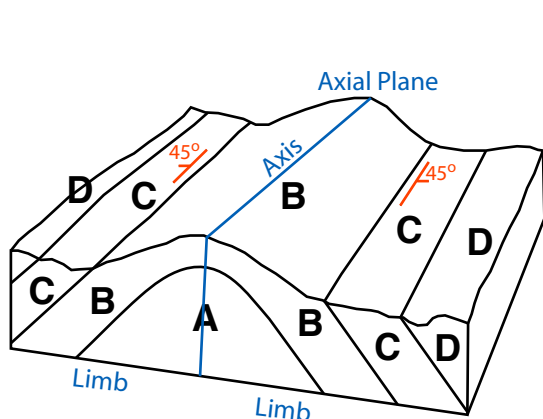


# Geologic Structures - KEY

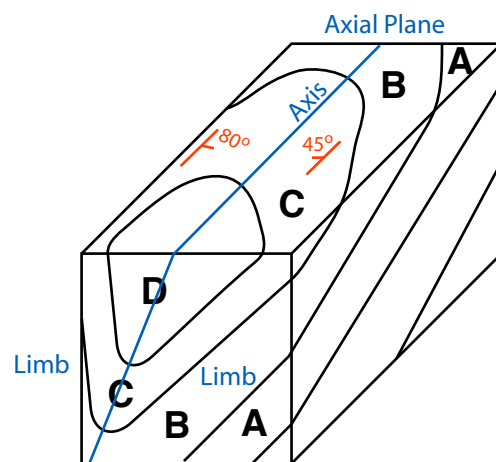
A.



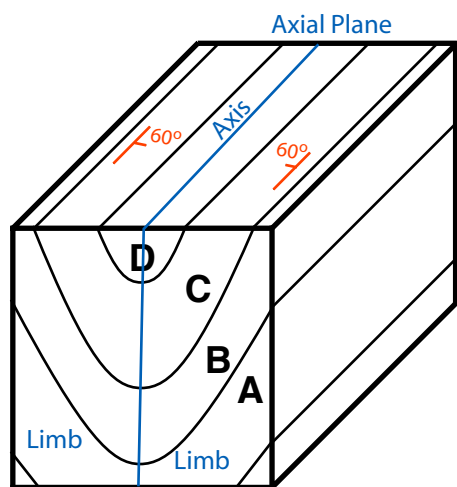
B.



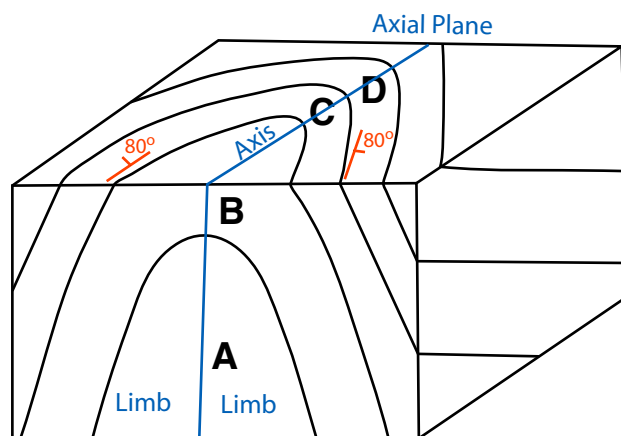
Name = Nonplunging, Symmetrical Anticline



Name = Plunging, Asymmetrical Syncline

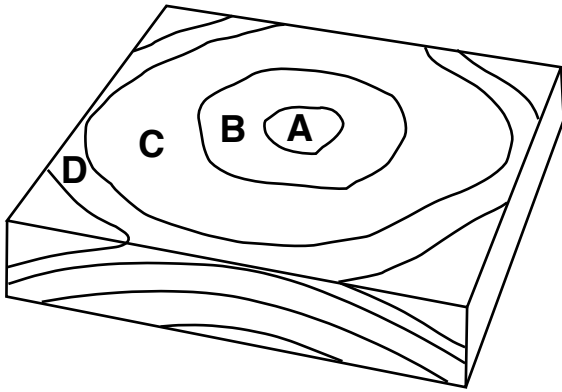


Name = Nonplunging, Symmetrical Syncline

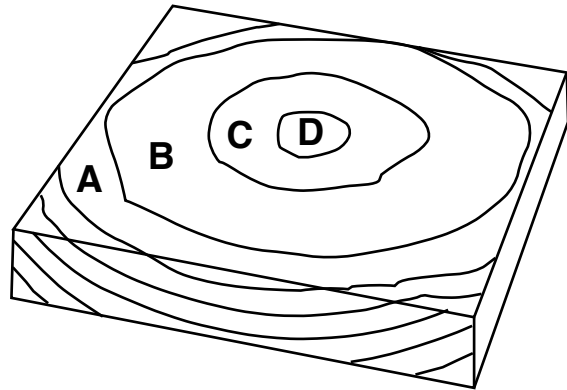


Name = Plunging, Symmetrical Anticline

C. For the block diagrams below identify the fold using all relevant fold descriptors (note the letter 'A' is the oldest rock and 'D' is the youngest).

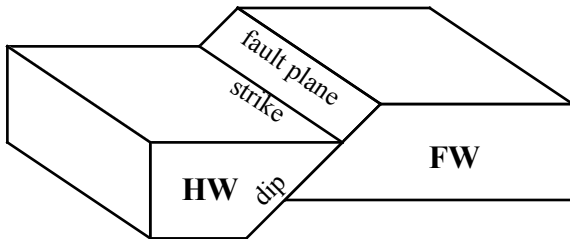


Name = Symmetrical Dome

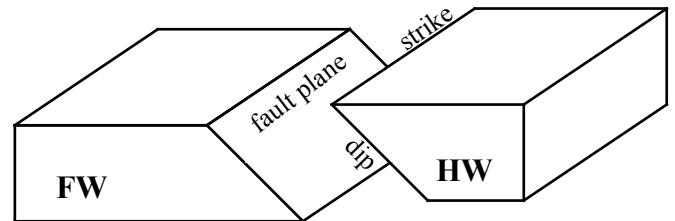


Name = Symmetrical Basin

D. For each of the block diagrams below label the hanging wall, footwall, fault plane, strike, dip and identify the fault.

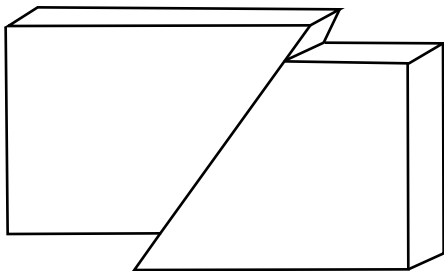


Name = Normal Fault

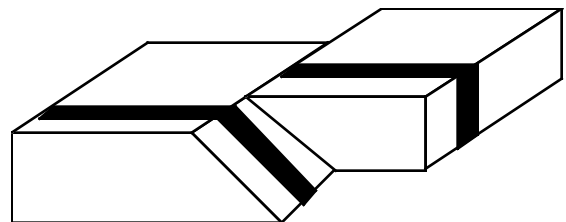


Name = Oblique Slip Fault

E. For each of the block diagrams below name the fault.

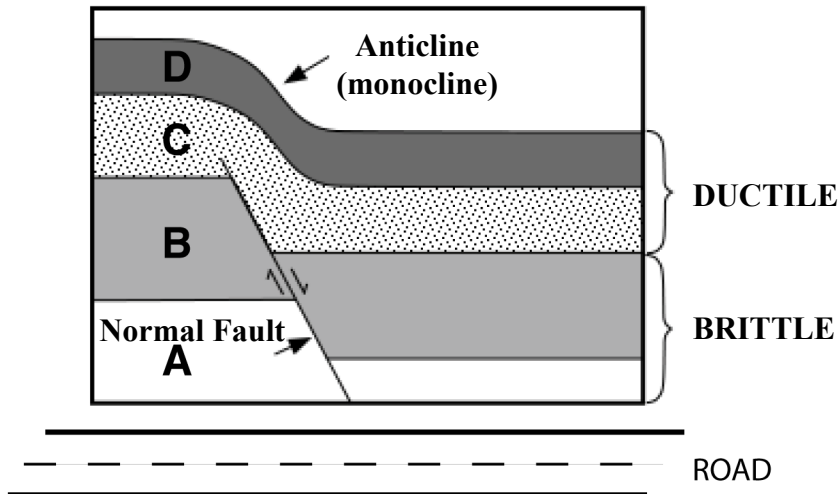


Name = Reverse Fault



Name = Left Lateral Strike Slip Fault

F. For the block diagram below identify the 2 geologic structures (be as precise as possible). Which of the 4 rock layers represent brittle rock? Which of the 4 rock layers have shown ductile deformation?



G. Using the models on the next 4 pages answer the following questions:

Model 1

Which direction are the layers of rock striking? North

Which direction are the layers of rock dipping? West

What is the approximate angle of dip?  $\sim 25^\circ$

Model 2 Give the complete name of this structure Nonplunging, symmetrical anticline

Model 3 Give the complete name of this structure Nonplunging, symmetrical syncline

Model 4 Give the complete name of the fold Plunging, symmetrical anticline

What other structure is present on this model? igneous intrusion