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# BUILDING CONSTRUCTION

## TYPES OF ROOF

It may be defined as the uppermost part of the building, provided as a structural covering, to protect the building from weather.

Structurally, a roof is constructed in the same way as an upper floor, though the shape of its upper surface may be different



# REQUIREMENTS OF A ROOF

It should be durable against the adverse effects of various agencies such as wind, rain, sun etc.

- It should grant the desirable insulation against sound and heat.
- It should be structurally stable and sound, it should be capable of taking the loads likely to come over it.
- It should be well-drained.
- It should have efficient water-proofing arrangement.

# TYPES OF ROOF

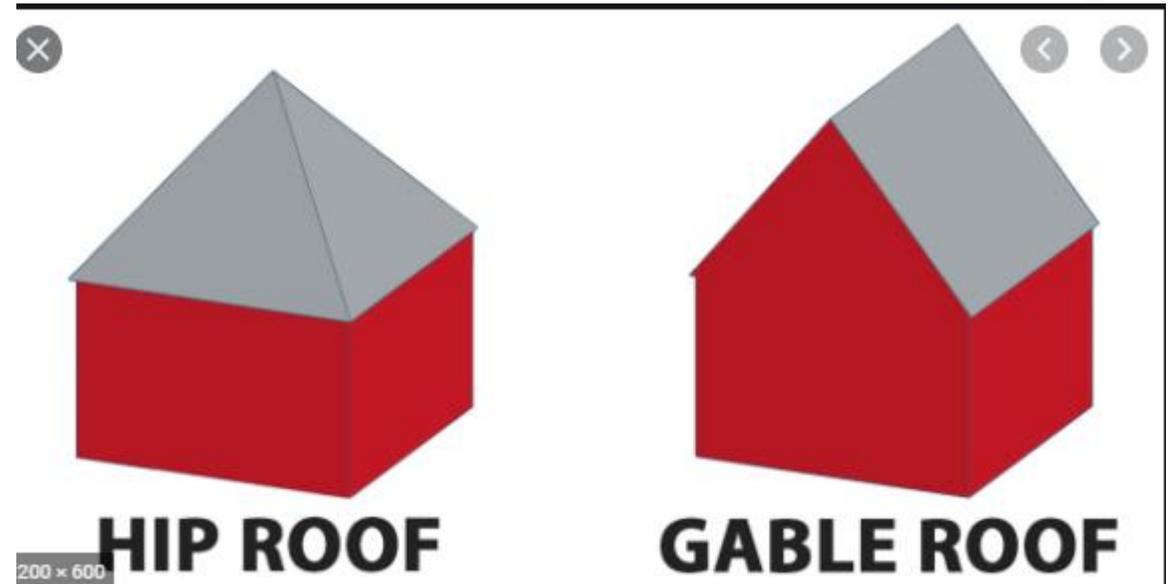
Pitched or Sloping Roofs

Flat Roofs or terraced Roofs

Curved Roof

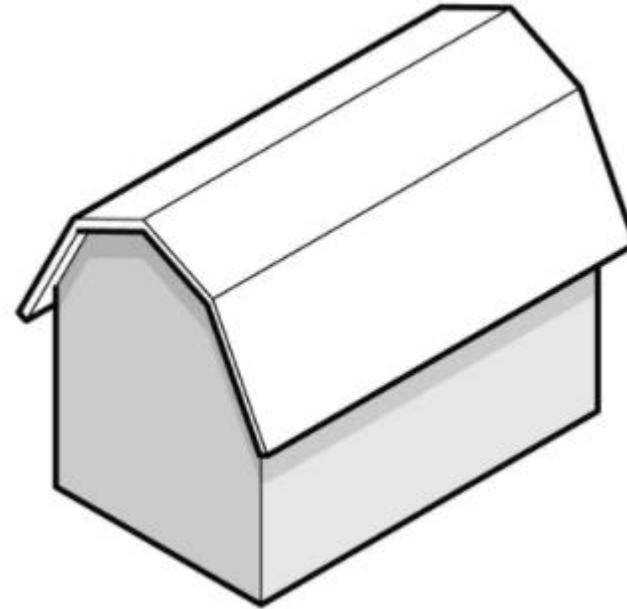
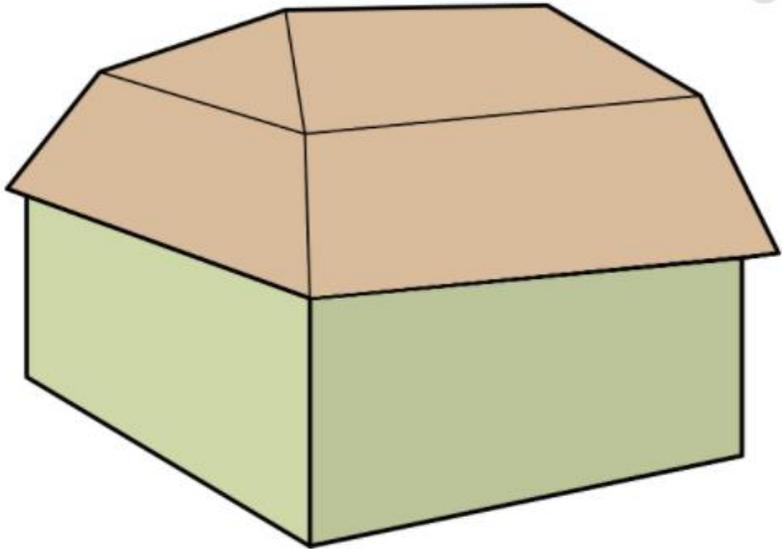
# FORMS OF PITCHED ROOF

- **GABLE ROOF:-** This is the common type of sloping roof which slopes in two direction. The two slopes meet at the ridge.



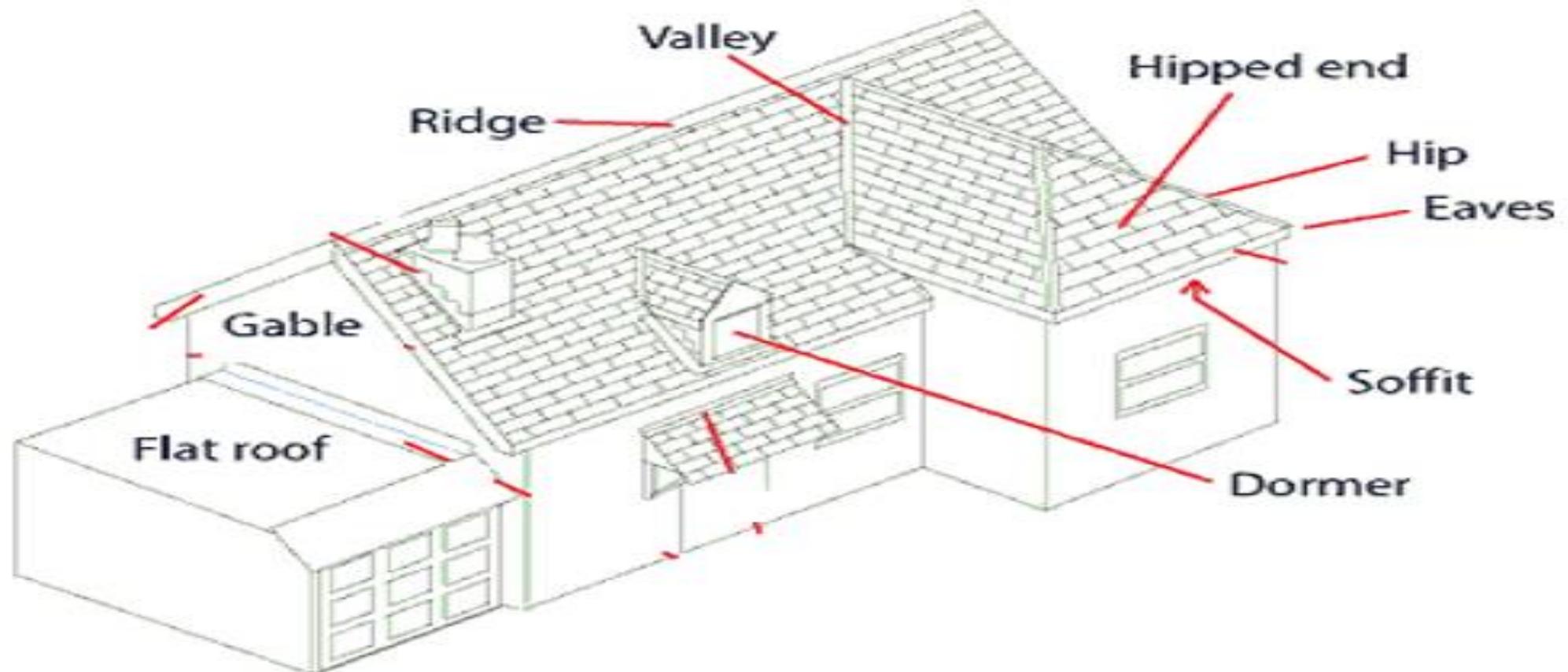
- **HIP ROOF:-** This roof is formed by four sloping surfaces in four directions.

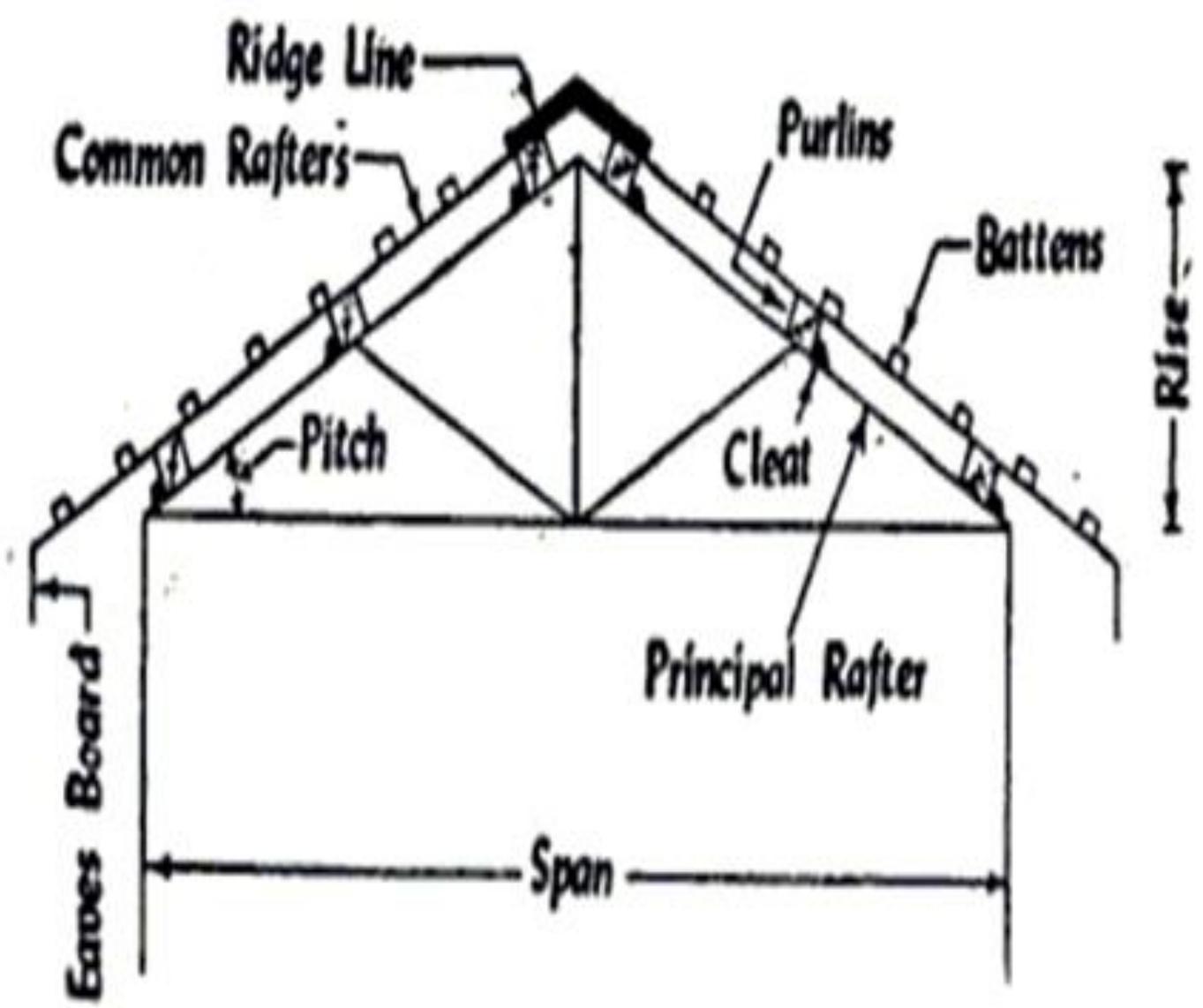
- **GAMBREL ROOF:-** This roof like gable roof, slopes in two directions but there is break in each slope.



- **MANCARD ROOF:-** This roof like a hip roof, slopes in four directions but each slope has a break.

- **DECK ROOF:-** A deck roof has slopes in all the four directions, like a hip roof but a plane surface is formed at the top.

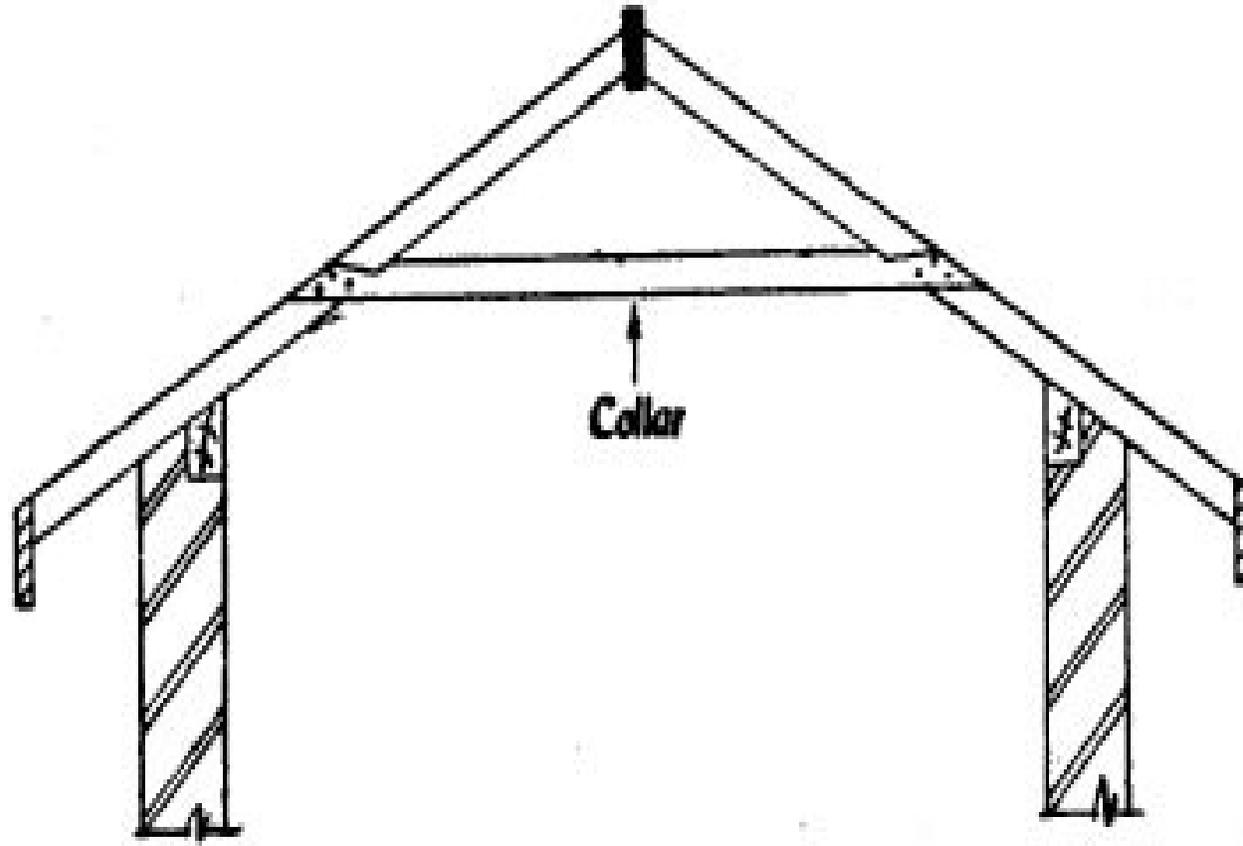




# PITCHED ROOF: BASIC ELEMENTS

- **HIP RAFTER:-** Which provided at the junction of two roof slopes.
- **PURLINS:-** The wooden pieces which are placed horizontally on principal rafters to carry the common rafters are known as purlins.
- **BATTENS:-** Thin strips of wood which are fixed on rafters or ceiling to support the roof ceiling.
- **CLEATS:-** Small blocks of wood which are fixed on truss to prevent the sliding of purlins.
- **GABLE:-** The triangular upper part of a wall formed at the end of a pitched roof is known as gable.

# COLLAR BEAM ROOF



# COLLAR BEAM ROOF

- When the span increases or when the load is more the rafters of the couple close roof have the tendency to bend.
- This is avoided by raising the tie beam and fixing it at one-third to one-half of the vertical height from the wall plate to the ridge. This raised beam is known as collar beam.
- This beam roof is adopted to economise the space and to increase the height of a room.
- This roof can be adopted up to a maximum span of 4.8m

**Name the short sections of wood or steel, which are fixed on principal rafter of trusses to support purlins:**

**A : Ridge plate**

**B : Eaves board**

**C : Wall plate**

**D : Cleat**

**The type of roof suitable in plains where rainfall is meagre and temperature is high:**

**A : Pitched and sloping roof**

**B : Flat roof**

**C : Shell roof**

**D : None of the above**

**Name the short sections of wood or steel, which are fixed on principal rafter of trusses to support purlins:**

**A : Ridge plate**

**B : Eaves board**

**C : Wall plate**

**D : Cleat**

**Structural members of the truss which are supported on the principal rafter and which run transverse to the truss are called**

**A : Struts**

**B : Sagtie**

**C : Purlins**

**D : Rafters**

**A roof with slopes in all the four directions and with a break in each slope is known as:**

**A : Miller roof**

**B : Mansard roof**

**C : Mat roof**

**D : Deck roof**