

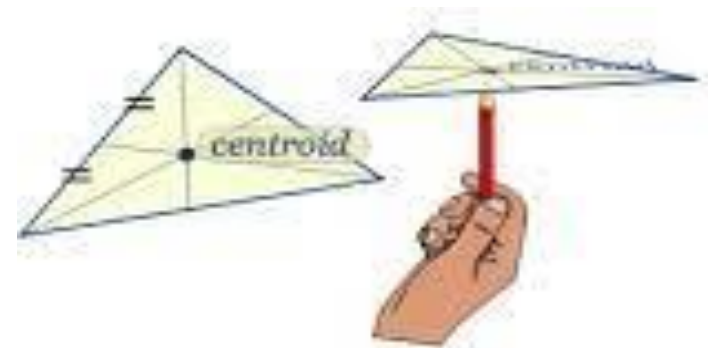
MANY USES OF TRIANGLES

Types of Triangles

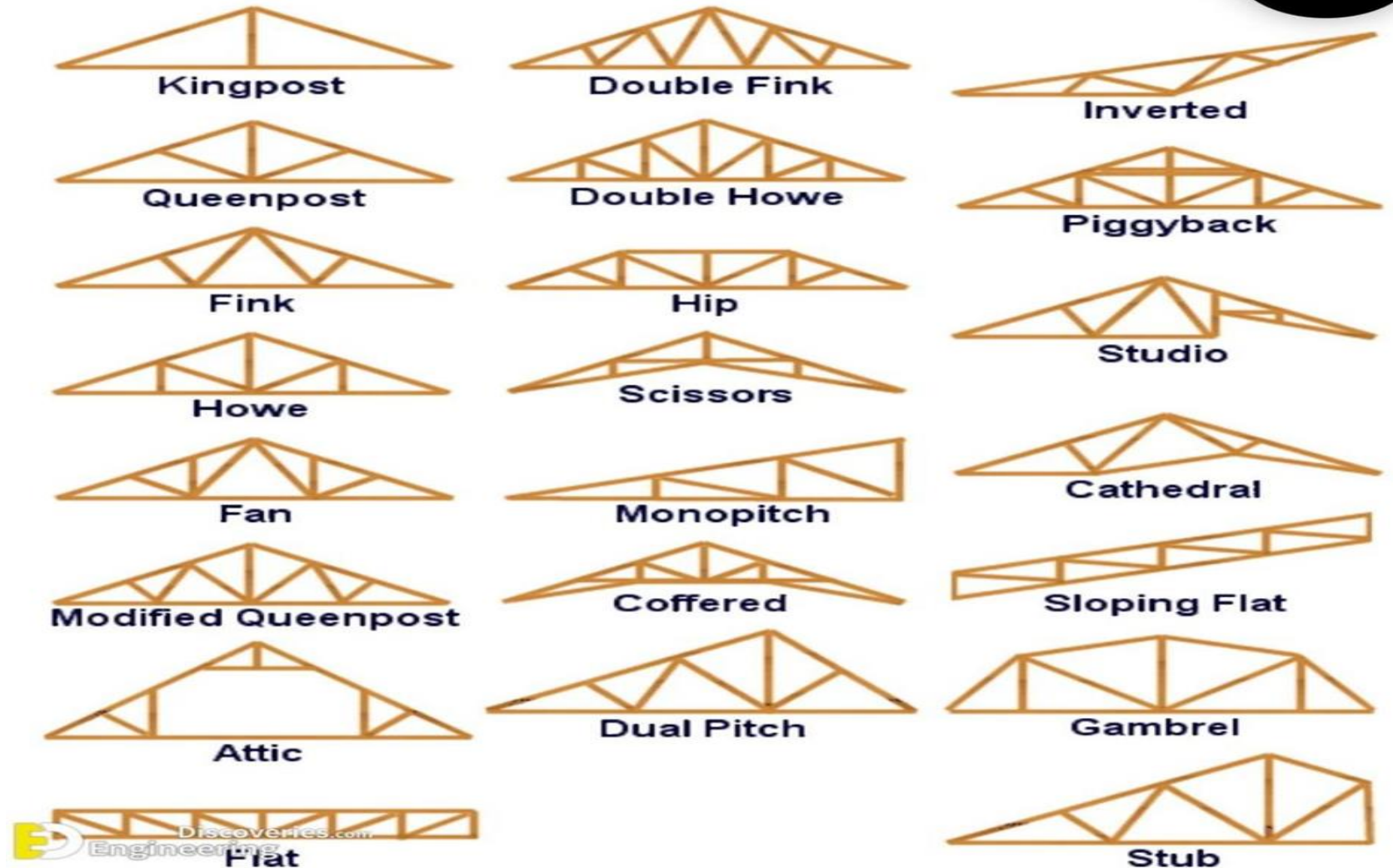
A triangle is a 2D shape with 3 straight sides and 3 vertices.



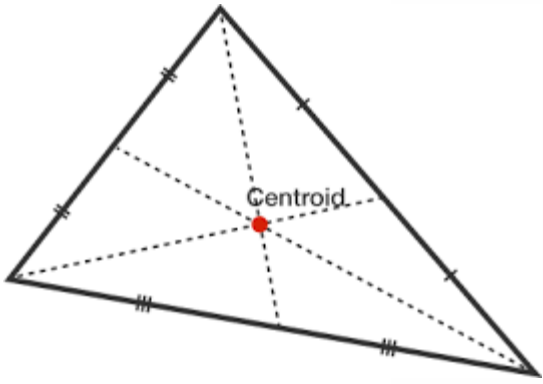
MANY CENTERS IN TRIANGLES



TRUSS –A SUPPORTIVE STRUCTURE USING TRIANGLES IS USED EXTENSIVELY IN ARCHITECTURE



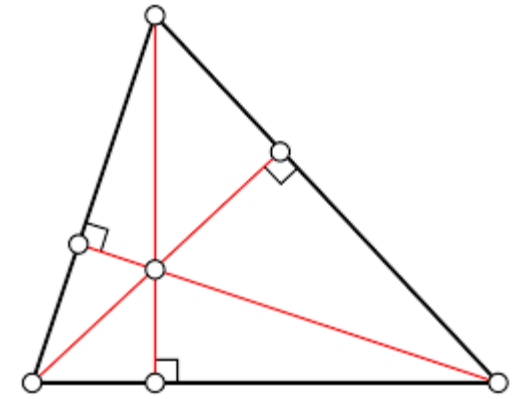
USING CENTROID OF A TRIANGLE FOR A TEA TABLE



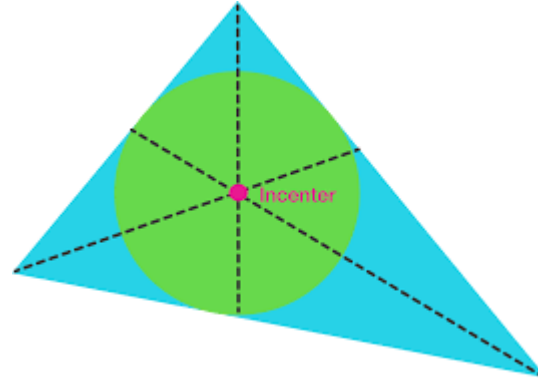
.

The glider itself will be an obtuse angle triangle, and uses the orthocenter of the glide, which will be outside the triangle,

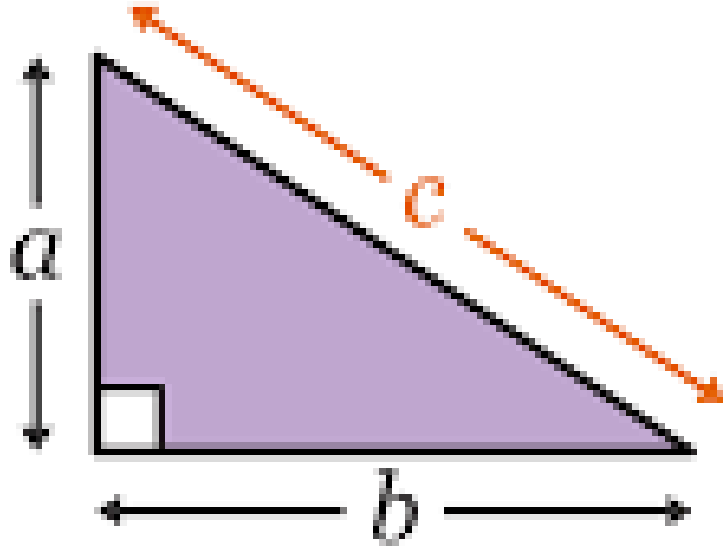
The cords descending down from the glide to the rider are an even length, connecting at one point of concurrency.



INCENTER OF A TRIANGLE IS USED HERE

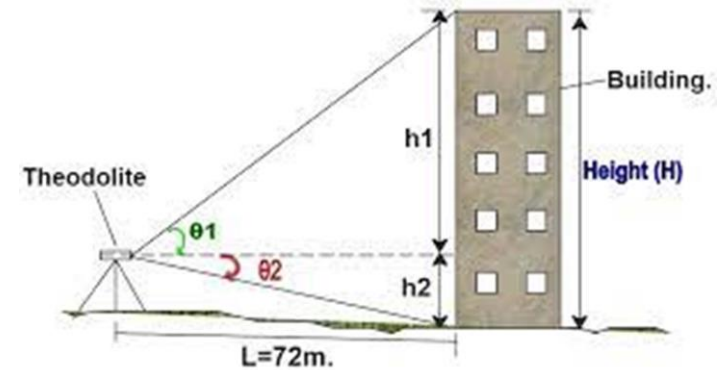
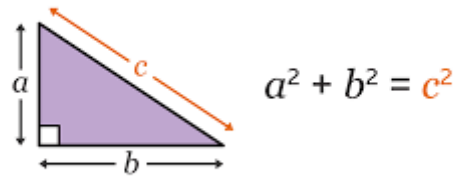
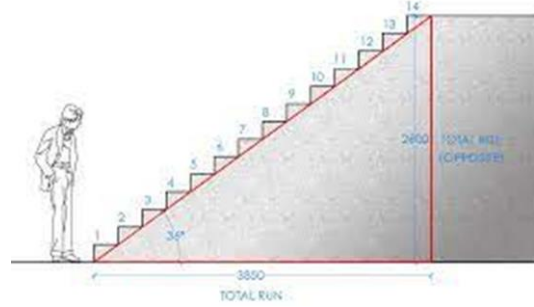


PYTHAGORAS THEOREM

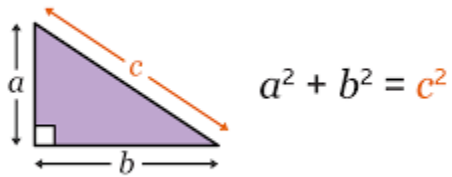


$$a^2 + b^2 = c^2$$

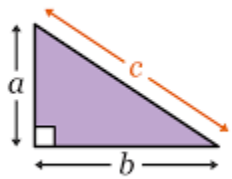
FIVE APPLICATIONS OF PYTHAGORAS THEOREM IN REAL LIFE



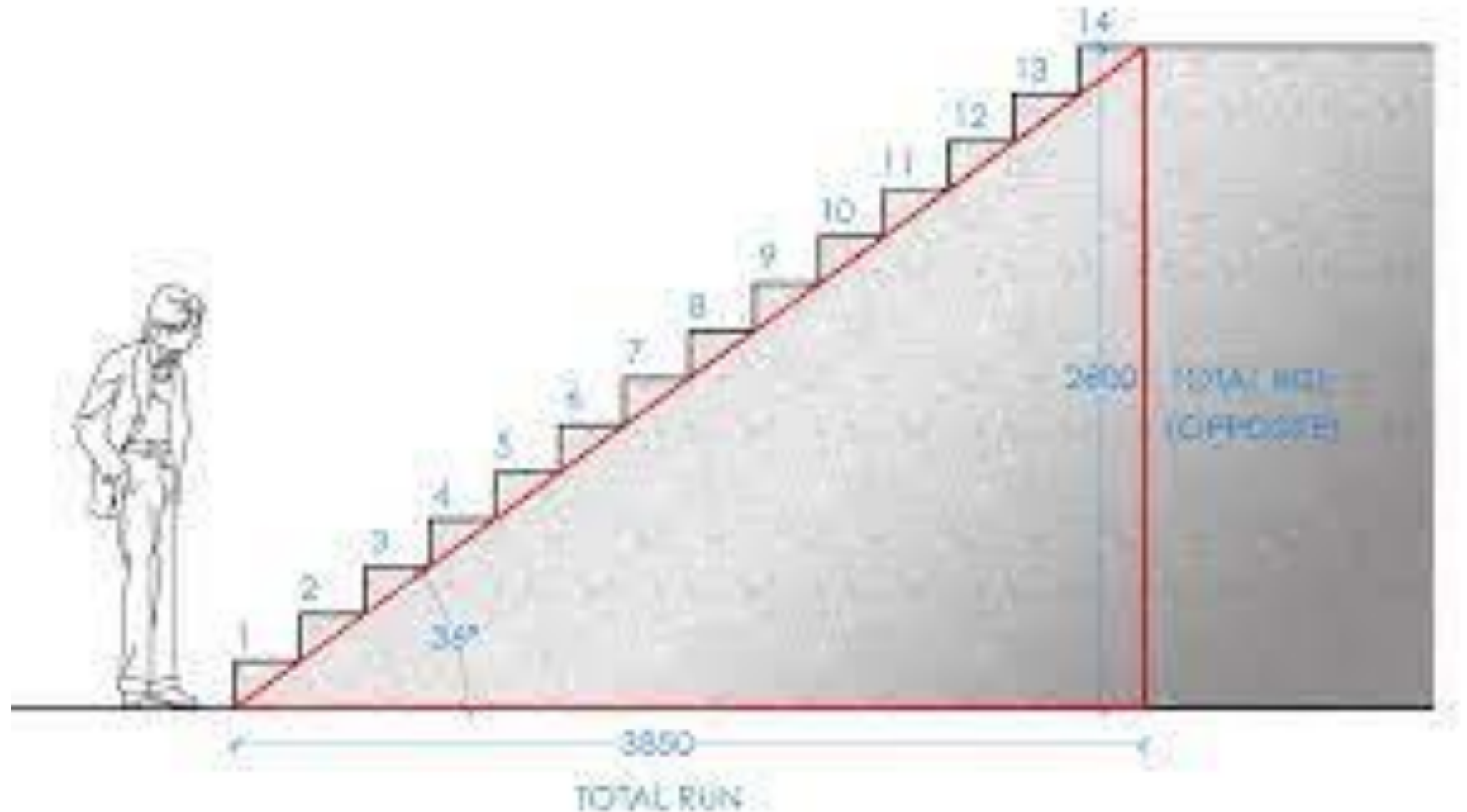
To find the original height of a tree broken due to heavy rain and lying on itself



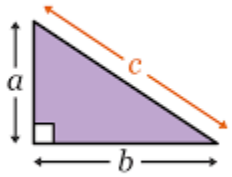
To calculate the length of staircase required to reach a window



$$a^2 + b^2 = c^2$$



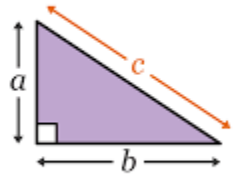
To find the length of the longest item can be kept in your room.



$$a^2 + b^2 = c^2$$



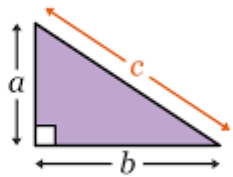
To find the steepness of the hills or mountains.



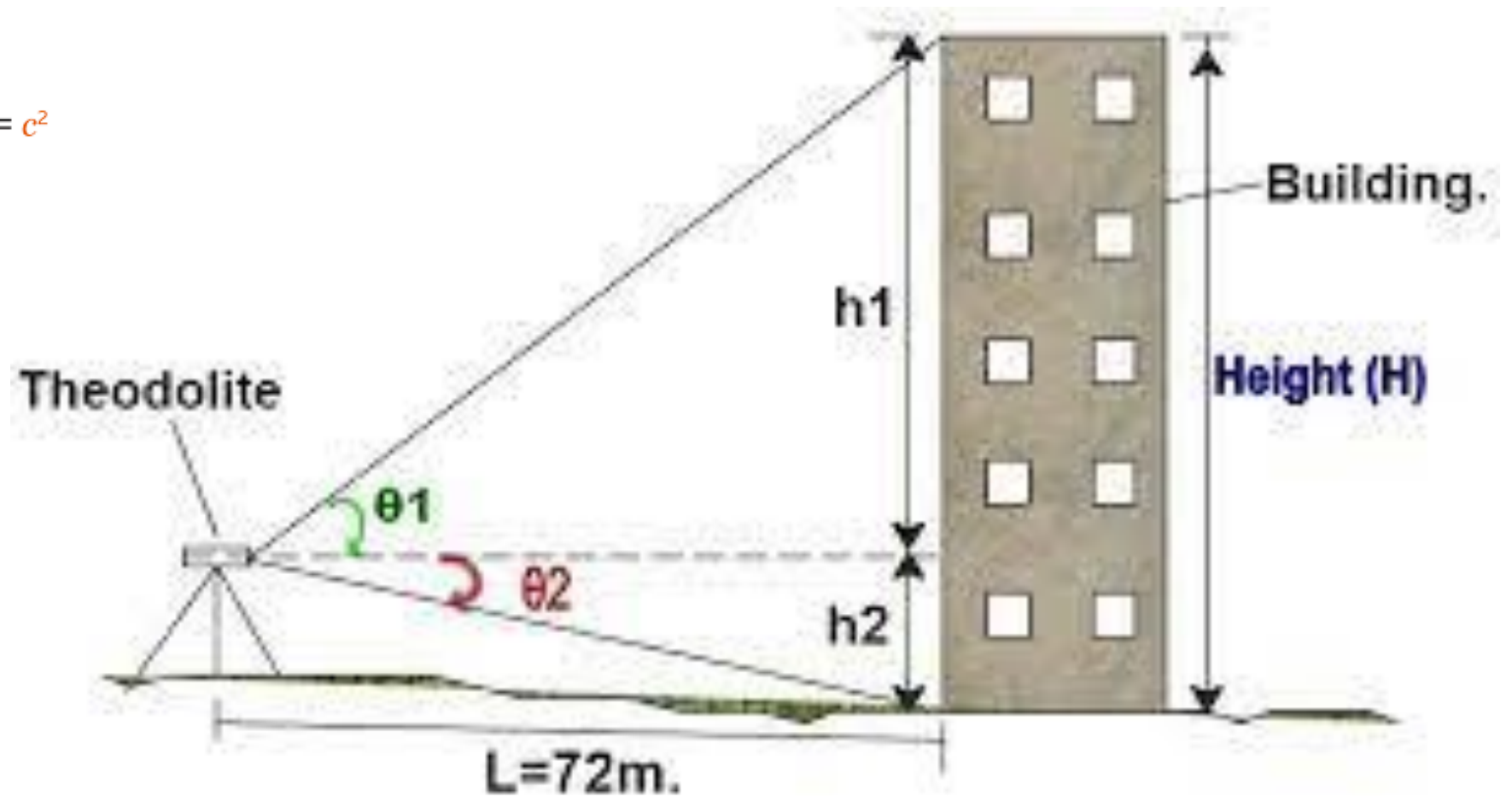
$$a^2 + b^2 = c^2$$



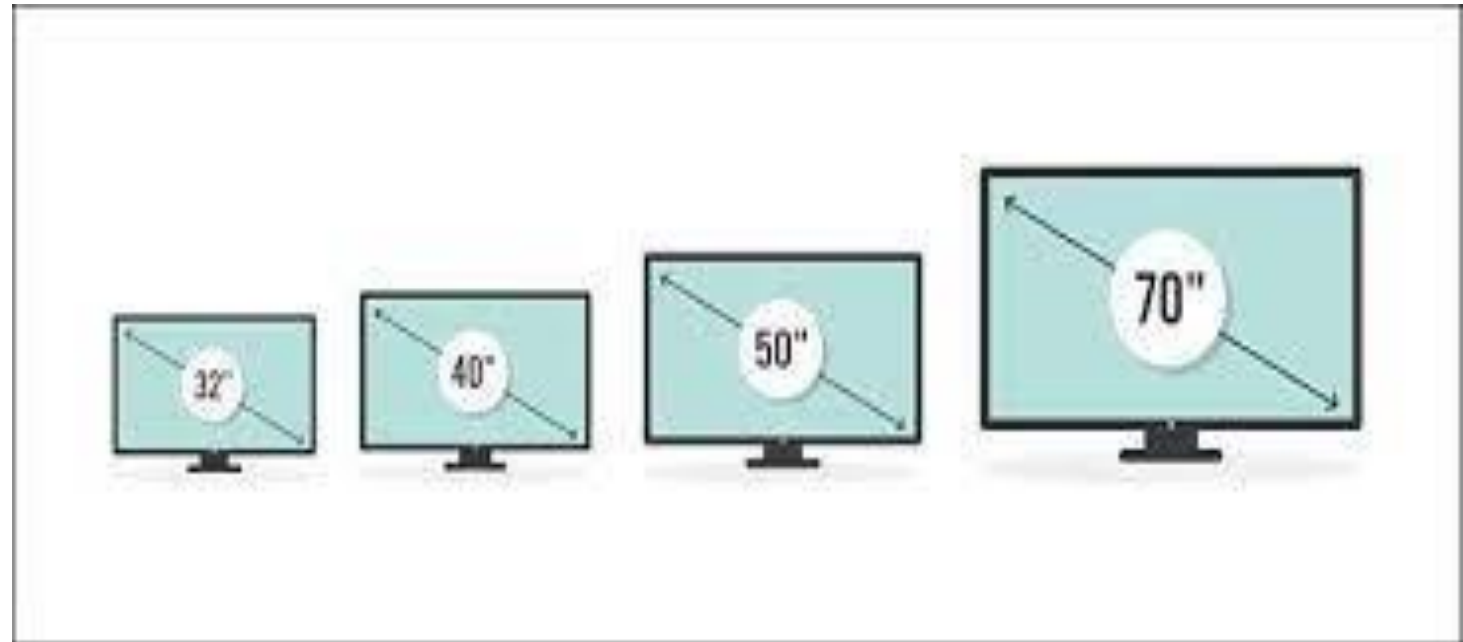
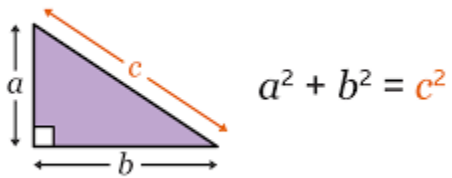
To determine heights and measurements in the construction sites.



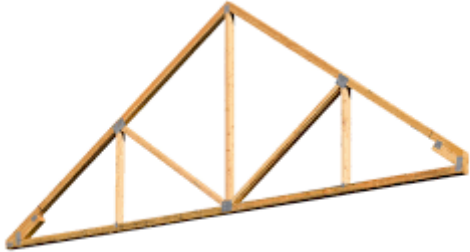
$$a^2 + b^2 = c^2$$



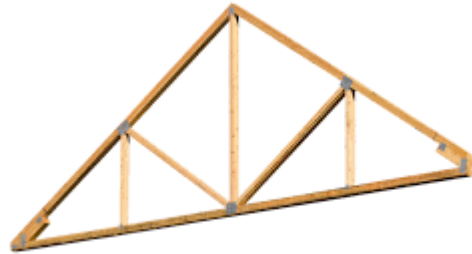
What Size TV Should You Buy : Tv size is always given in terms of diagonal. Suppose a tv size is given 32 inch, then it's size is actually the value of the diagonal or hypotenuse.



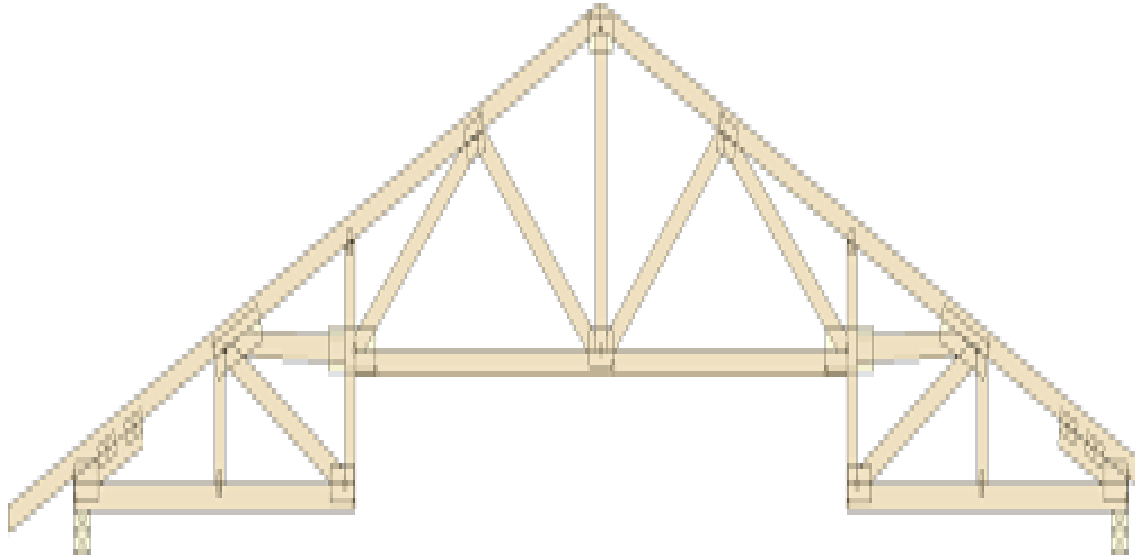
TRIANGULAR TRUSS



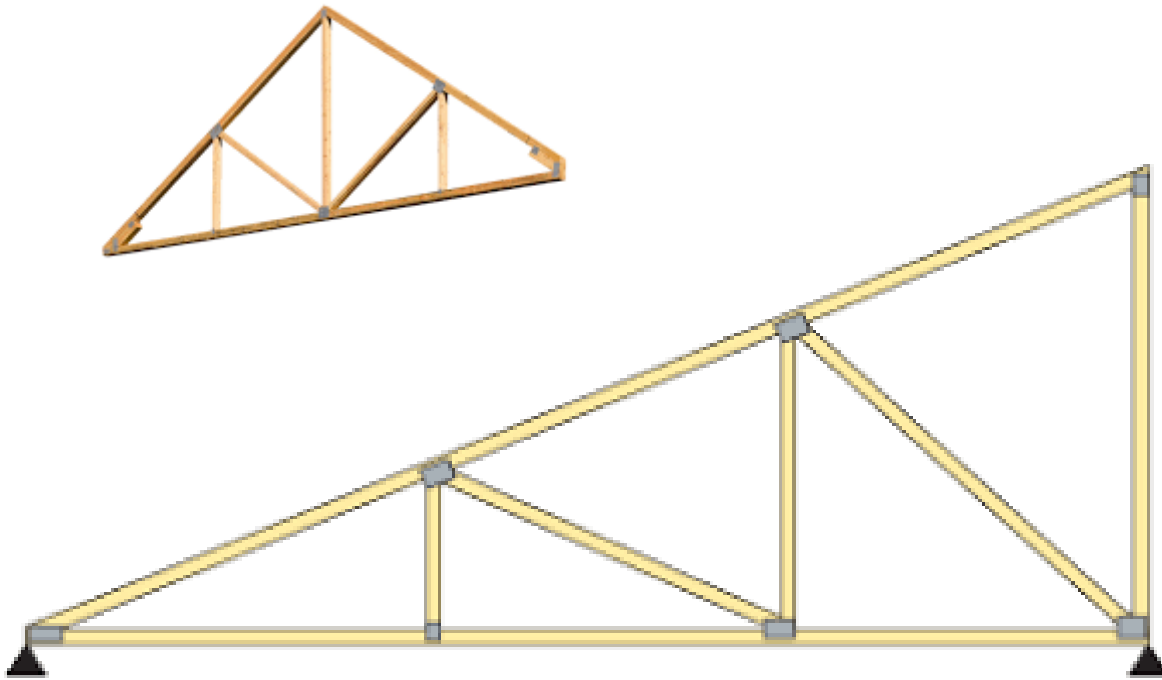
LONGEST TRIANGULAR TRUSS BRIDGE -- IKITSUKI BRIDGE JAPAN 1300 FT



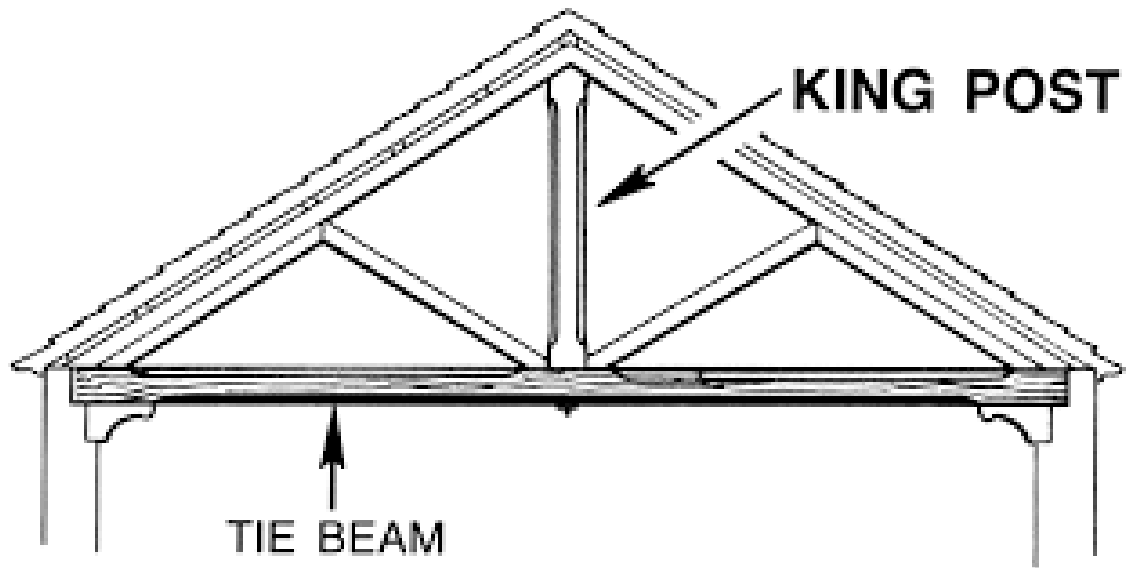
COFFERED TRUSS --ISSOCELLUS TRIANGLES



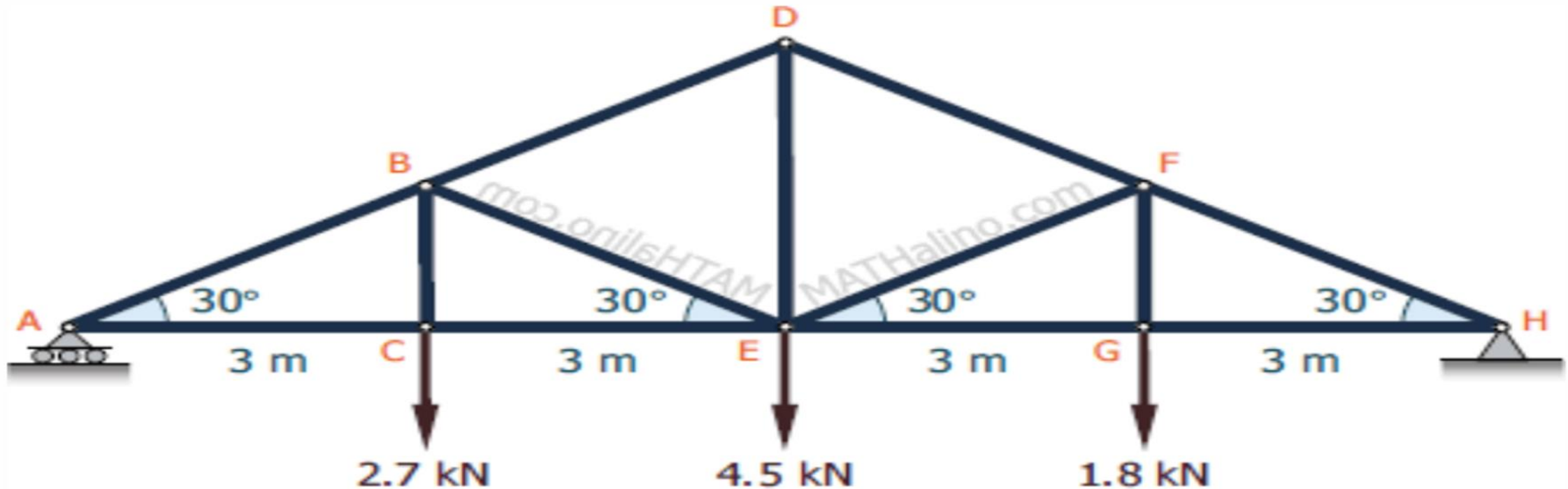
MONO PITCH TRUSS --RIGHT TRIANGLE AND ACUTE TRIANGLES



KING POST TRUSS—OBTUSE ANGLE TRIANGLES



HOWE TRUSS ---30/60/90 TRIANGLE





HOWE TRUSS ---30/60/90 TRIANGLE



HOWE TRUSS ---30/60/90 TRIANGLE