

# Calculating Roof Pitch

Tom Ryan, November 2003

You can use the factors below in order to find the roof pitch or the highest point of the roof above the eaves. Multiply the horizontal width (measured horizontally from the side of the building to under the highest point) by the factors given below.

To get the factor (x) divide the length of the upright (z) by the length of the horizontal (y).

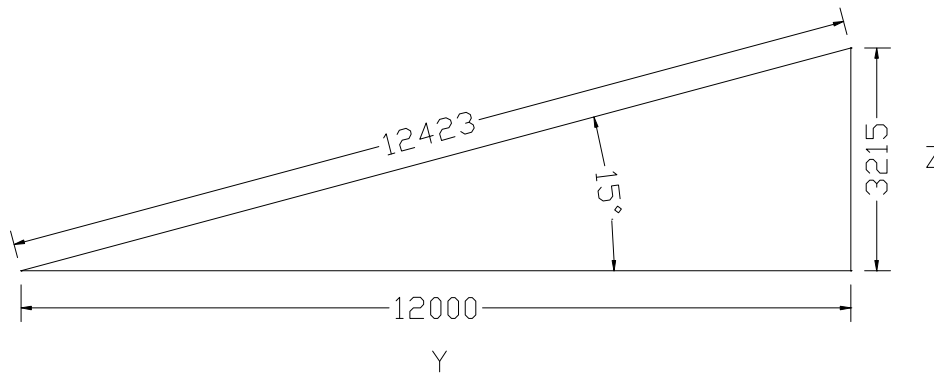
$$x = z/y$$

$$12^\circ = 0.2126$$

$$15^\circ = 0.268$$

The old lean-to sheds on farms are usually  $10^\circ$  and this low pitch is not recommended now. The factor for  $10^\circ$  is 0.17.

Example: A 12 metre wide leanto with a 15 degree pitch



The multiplication factor  $X = z/y$

$$X = 3215/12000$$

$$X = 0.268$$

To get the highest point of the roof above the eave, multiply the horizontal distance by the x

$$\text{e.g. } 12000 \text{ by } 0.268 = 3215$$

Dimensions are in millimeters in the example.