Answer on Question #48997 - Math - Trigonometry

A tree x m high the angle of elevation of its top from a point P on the ground is 23. from another point Q, 10 m from P and in line with P and the foot of the tree, the angle of elevation is 32. Find x.

Solution

As we get 2 rectangular triangles ABQ and APB with right angle B, in which AB = x,