



**Anthony Colins Institute**  
Educational Development

## **Trigonometry!**

Solve this problem:

From a point (P) due west of a television mast the angle of elevation of the top of the mast is  $33^\circ$  and from a point (Q) due south of the mast the angle of elevation of the top is  $27^\circ$ . If the distance (PQ) is 730m, what is the height of the mast?

Give your answer to the nearest metre and show the answer in diagrammatic form.