

29th March

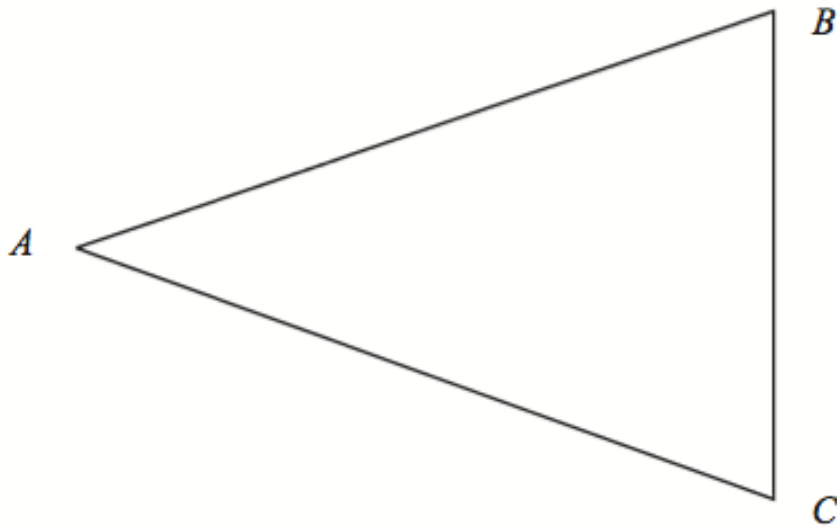
Corbettmaths

The force, F , between two magnets is inversely proportional to the square of the distance, d , between them.

When $F = 4$, $d = 3$.

Express F in terms of d .

ABC is a garden. A tree is planted closer to wall AB than wall BC
Show the possible locations the tree can be planted



Two spheres have volumes in the ratio 8:125

The radius of the larger sphere is 30cm.

What is the radius of the smaller sphere?

A rectangular field is 30m longer than wide.

The area of the field is 8800m²

Work out the perimeter of the field.