4th April

a is inversely proportional to the cube root of b.

When \( a = 60 \), \( b = 3.375 \)

Find \( b \) when \( a = 90 \)

Find the equation of the line perpendicular to Line 1, that passes through the point A

Find the shortest distance between Line 1 and the point A

A square based pyramid 1 is divided into two parts: a square based pyramid 2 and a frustum 3, as shown.

Pyramid 1 has a base of side length 12cm.
Pyramid 2 has a base of side length 4cm.
The perpendicular height of pyramid 1 is 15cm.

Calculate the volume of frustum 3.