"I was very slow in maths, geometry I actually enjoyed."
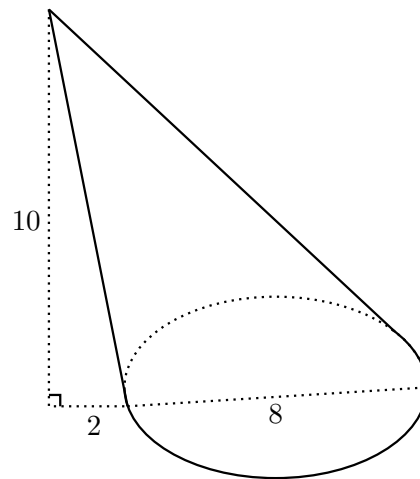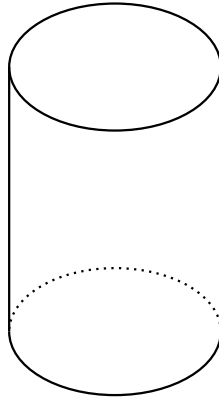
– *Liam Neeson*

Problem 1. (10pt) Find the volume and surface area of the right circular cone shown below. [Note: Assume the line segment of length 8 below passes through the center of the circle.]

Problem 2. (10pt) Find the volume and surface area of the right circular cylinder with diameter 3 and height 10 shown below.

Problem 3. (10pt) Find the volume and surface area of the cube shown below. Also, find the length of the 'diagonal' of the cube, i.e. the length from one corner to another.