

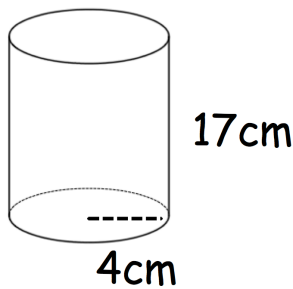


Write down the formula to work out frequency density

y varies directly with the cube of x

$$y = 108 \text{ when } x = 3$$

Express y in terms of x



Calculate the surface area

In Year 9 there are two classes, 9A and 9B. There are 20 students in Class 9A and 30 students in Class 9B.

The mean number of books read each month in Class 9A is 3.75

The mean number of books read each month in Year 9 is 3.2

Work out the mean number of books read each month in Class 9B.
Give your answer to 2 decimal places.

Find the exact value of

$$\cos(30^\circ) + \tan(30^\circ)$$

(without using a calculator)