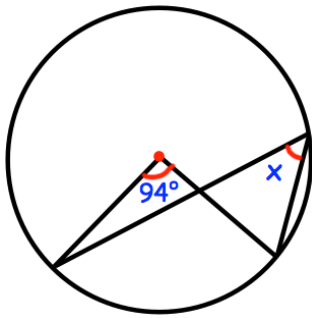


13th December



Corbettmaths

Find x

Show that an increase of 10% followed by an increase of 10% is equivalent to a 21% increase overall.

Show $x^2 - 5x + 1 = 0$ has a solution between 4 and 5.

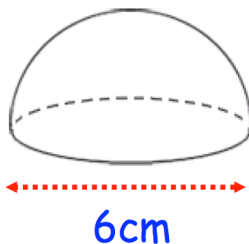
Show $x^2 - 5x + 1 = 0$ can be written in the form

$$x = 5 - \frac{1}{x}$$

Starting with $x_0 = 4$, use the iteration formula

$$x_{n+1} = 5 - \frac{1}{x_n}$$

twice to find an approximate solution of $x^2 - 5x + 1 = 0$



Calculate the surface area of the hemisphere.