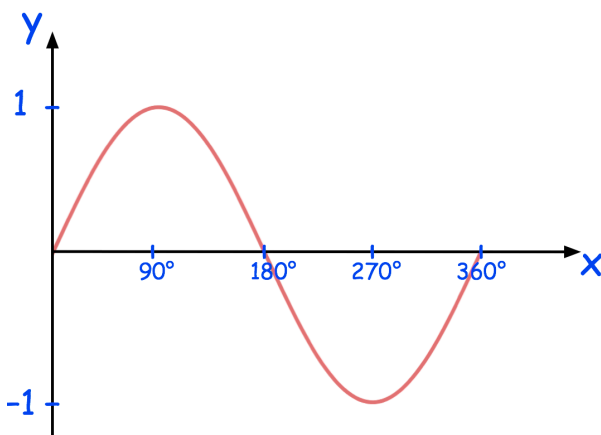




Simplify this ratio fully

$$\sqrt{45} : \sqrt{180} : \sqrt{320}$$

Here is a sketch of $y = \sin x$ for $0^\circ \leq x \leq 360^\circ$



Given that $\sin 195^\circ = -0.2588$

Solve $\sin x = 0.2588$ for $0^\circ \leq x \leq 360^\circ$

Solve

$$x + y - 4 = 0$$

$$y^2 - 5 = 4x$$

A sphere has radius c
A hemisphere has radius d .

The volume of the hemisphere is twice the volume of the sphere.

Work out the value of

$$\frac{d}{c}$$