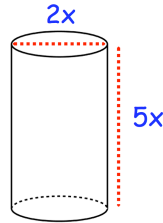




Work out

$$\left(\frac{64}{729}\right)^{-\frac{2}{3}}$$

The cylinder has a surface area of $972\pi \text{ cm}^2$

Find x 

Simplify

$$\frac{x-1}{2x^3} + \frac{x+4}{x^4} \div \frac{4x+16}{x}$$

In bag 1, there are 3 apples and 1 orange.

In bag 2, there are 2 apples and 3 oranges.

A piece of fruit is picked at random from bag 1 and placed into bag 2.

Then a piece of fruit is picked at random from bag 2 and placed into bag 1.

Find the probability that bag 1 **does not** contain 3 apples and 1 orange.