



$$f(x) = (x + 5)(x + 3a)$$

Given

$$f(0) = 18$$

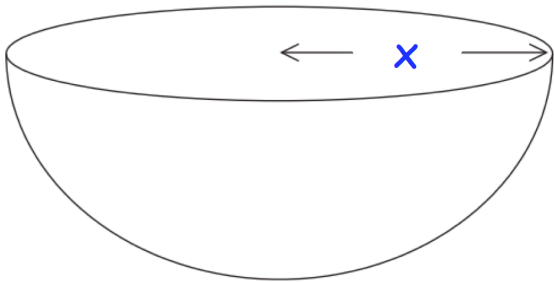
Find a

Two consecutive positive integers are multiplied together.
The result is added to the larger of the two integers.

Prove the answer is a square number

A is directly proportional to the cube root of B.

Find the percentage increase in A if B is increased by 30%.



A solid glass paperweight has a mass of 500 grams.

The glass has a density of 3.5g/cm^3

The paperweight is a hemisphere.

Find x