The answer of the question3 at P40

a

International System (SI) Units

from the table we can find that the unit of r is meter(m),according to the formula $V = \frac{4r^3}{3\pi}$ we can find that the unit of V is three to the power of r, which means that the unit of V is m^3
according to the table,m^3 is the true answer

U.S. Customary Units

from the table we can find that the unit of 'r' is feet(ft),according to the formula $V = \frac{4r^3}{3\pi}$ we can find that the unit of V is three to the power of r, which means that the unit of V is ft^3
according to the table,ft^3 is the true answer

b

according to the fomula,we could find that:

$$V = \frac{4 * 4^3}{3\pi} = \frac{256}{3}\pi \approx 268.08$$

c

inputs

my inputs will be r,becuase in the formula, only V and r are unknowns. If V is required, you must enter r

outputs

according to the question,my outputs will be V

algorithm

I will write my code according to the formula