Measuring cup

This task is about calculating volume.

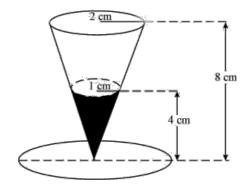
Use the information about the measuring cup to answer the questions below.

The height (h) of the cup is 8 cm.

The radius *(r)* of the top of the cup is 2 cm.

The volume of the cup is given by the formula:

$$V = \frac{1}{3}\pi r^2 h$$
 (Use $\pi = 3.14$)



- a) What volume of medicine will the cup contain if it is full? $\,$ cm³
- b) What volume will be in the cup if the height of medicine is ...
 - i) 4 cm? cm³
 - ii) 7 cm? cm³
- c) The cup had 6 cm of medicine in it.

 Monica drank some medicine, but found the cup still had 2 cm of medicine left in it.

How much medicine did Monica drink? cm³

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