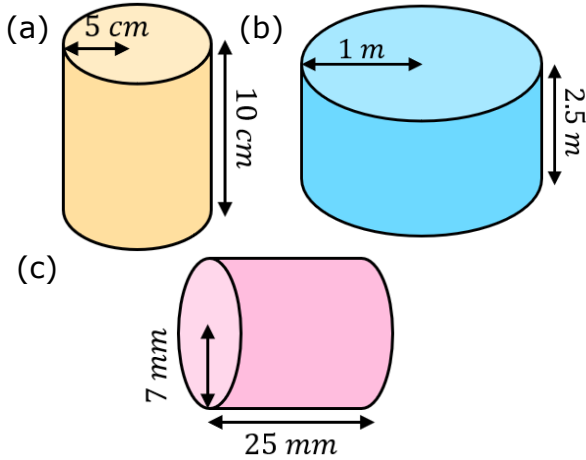


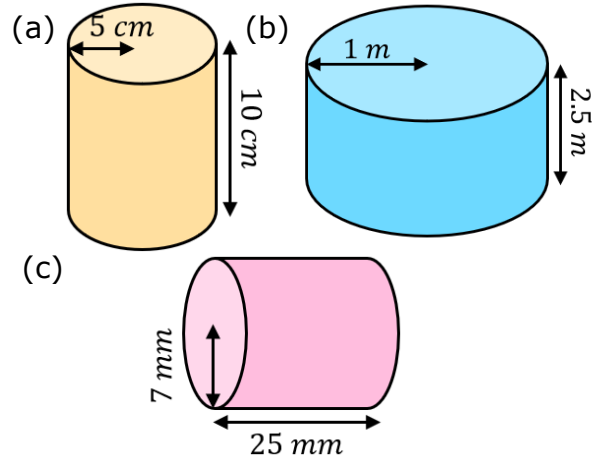
Surface Areas of Cylinders

Find the total surface areas of these cylinders.

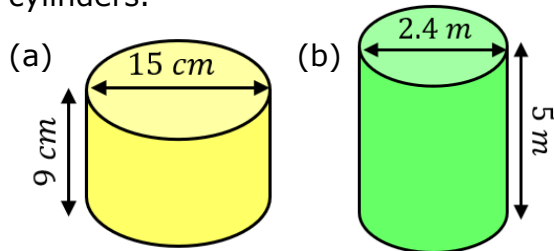


Surface Areas of Cylinders

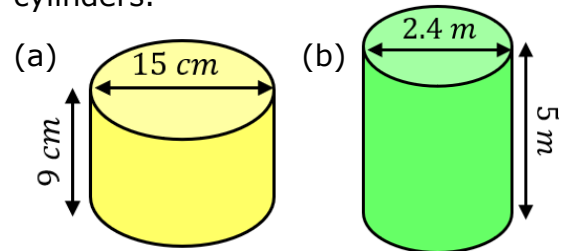
Find the total surface areas of these cylinders.



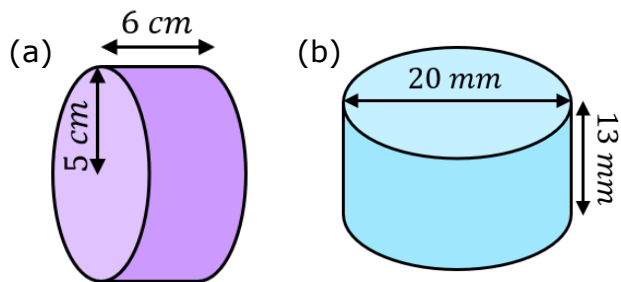
Find the total surface areas of these cylinders.



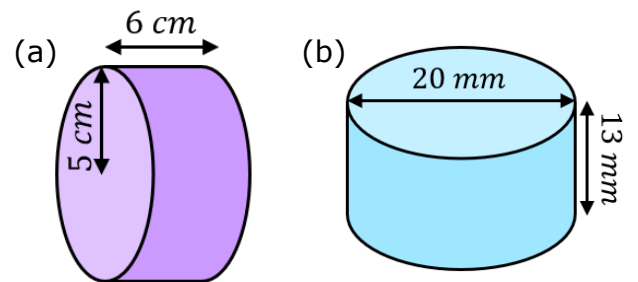
Find the total surface areas of these cylinders.



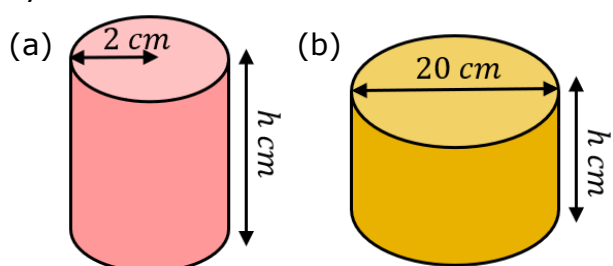
Find the total surface areas of these cylinders, leaving your answer in terms of π .



Find the total surface areas of these cylinders, leaving your answer in terms of π .



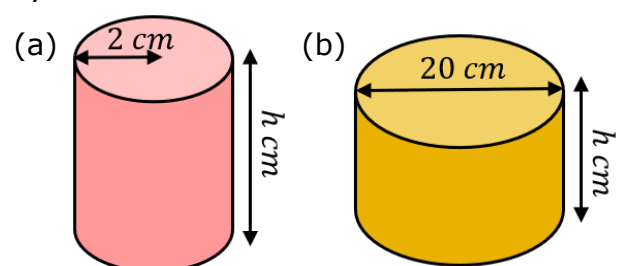
Find the missing lengths in these cylinders.



Curved surface area = $54\pi\text{ cm}^2$

Total surface area = $345\pi\text{ cm}^2$

Find the missing lengths in these cylinders.



Curved surface area = $54\pi\text{ cm}^2$

Total surface area = $345\pi\text{ cm}^2$