Year 09
Weekly Tutorial - 04

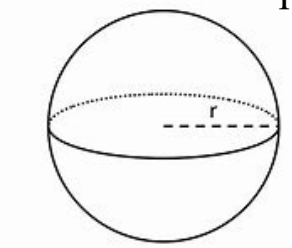
mathsalpha.com

1. Solve. $\frac{3x-5}{7} = \frac{x+11}{2}$

2. Solve by factorization, $2x^2 + x - 15 = 0$

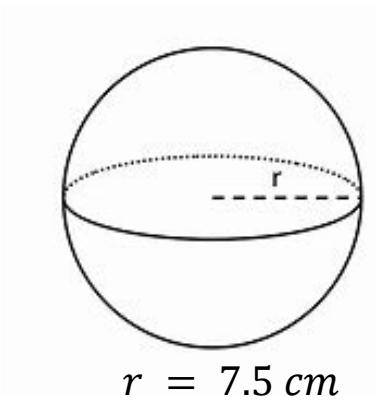
3. Find the surface area and volume of the following spheres. (Give the answer correct to 1dp)

a)



$r = 5\ cm$

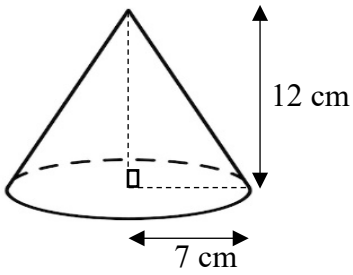
b)



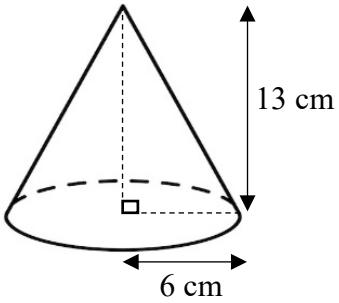
$r = 7.5\ cm$

4. Find the surface area and volume of the following cones. (Give the answer correct to 1dp)

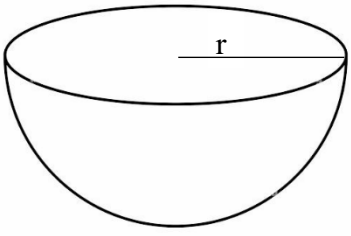
a)



b)



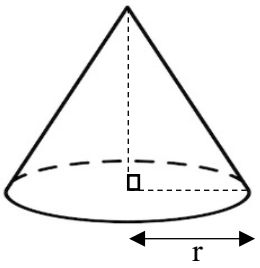
5. Find the volume and the total surface area of the hemisphere.



r = 9 cm

Dharana Siriwarnage, PGD (maths), BSc

6. Find the volume of the cone, if area of the cone is $353.4\ cm^2$.

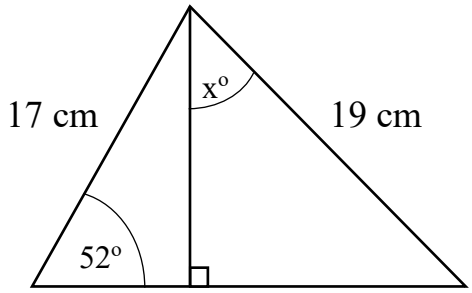


r = 7.5 cm

7. Volume of a sphere is $7238\ cm^3$. Find the curved surface area of the cone. Give the answer correct to 1dp.

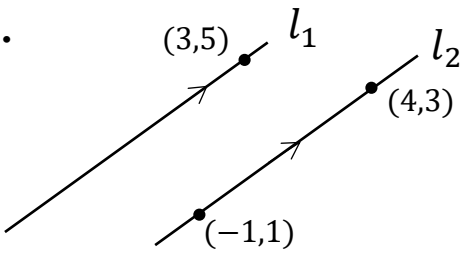
8. Make l the subject of the formula. $y = \pi\sqrt{\frac{x-l}{l}}$

9.



Find the x^o.

10.



Find the equation of line l_1.
Give the equation in the form $y = mx + c$.
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