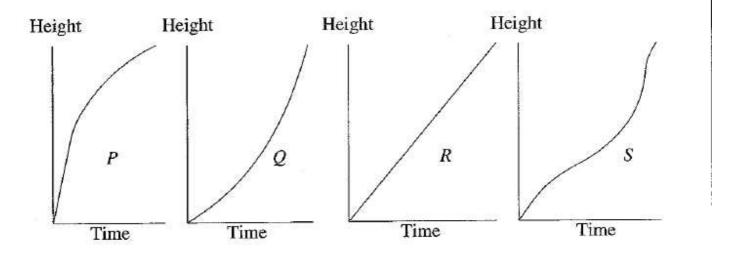


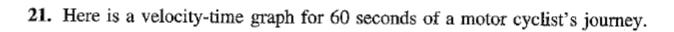
Water is poured at a constant rate into each of these containers.

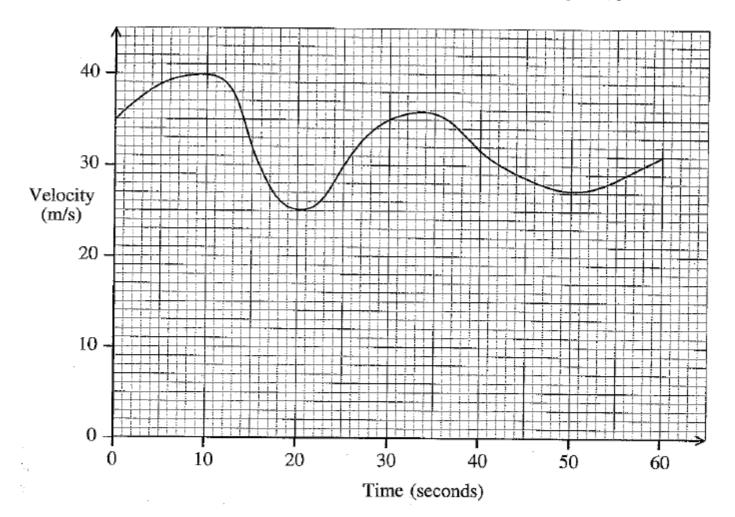


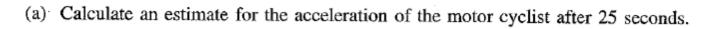
Each sketch graph shows the relationship between the height of water in a container and the time as the water is poured in.

Write the letter of each graph in the correct place in the table.

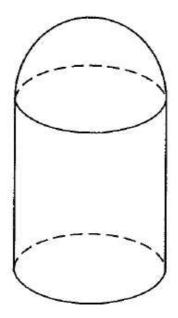
Container	Graph
А	
В	
С	elene 119 - A
D	







..... m/s² (3)

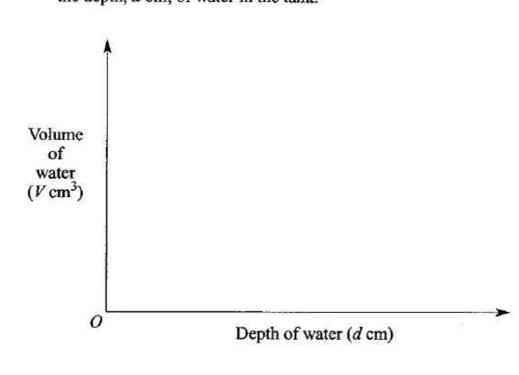


The diagram shows a water tank.

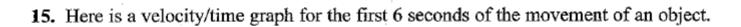
The tank is a hollow cylinder joined to a hollow hemisphere at the top. The tank has a circular base.

The empty tank is slowly filled with water.

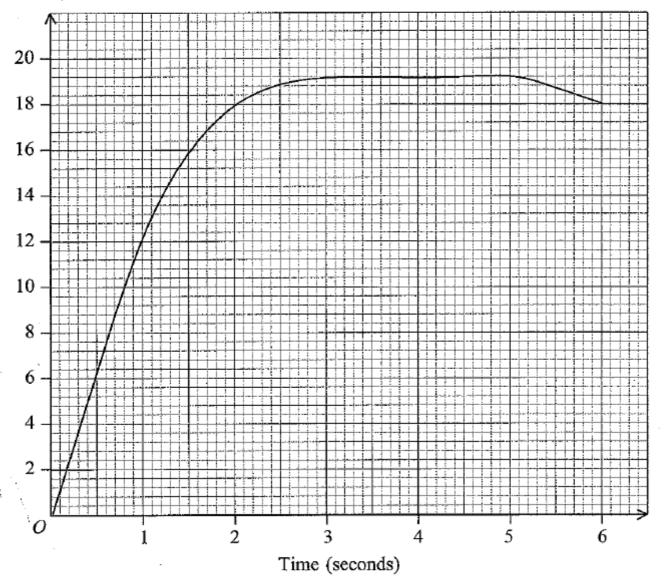
 (a) On the axes, sketch a graph to show the relation between the volume, V cm³, of water in the tank and the depth, d cm, of water in the tank.



10.



Velocity (m/s)



(a) Calculate an estimate for the object's acceleration at $1\frac{1}{2}$ seconds.