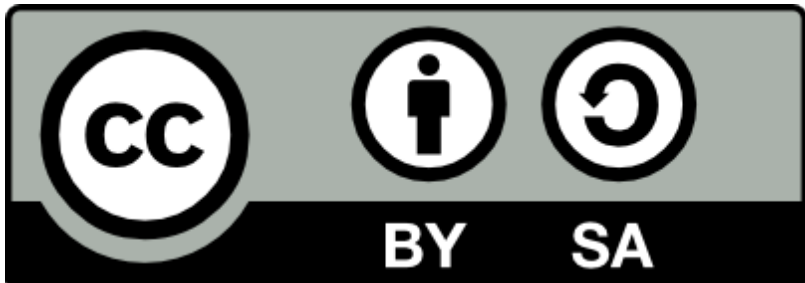


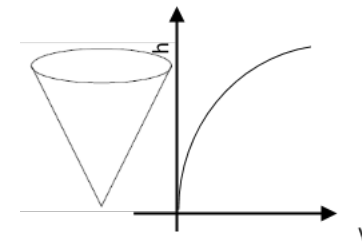
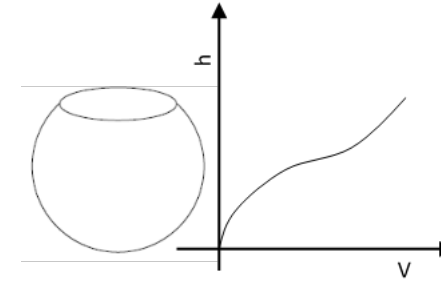
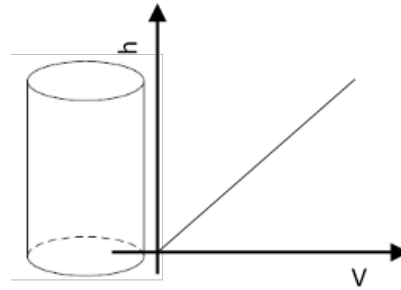
Filling vessels



This material is provided by the [FunThink team](#), responsible institution:
Ludwigsburg University of Education

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Filling vessels



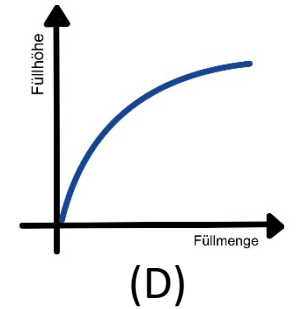
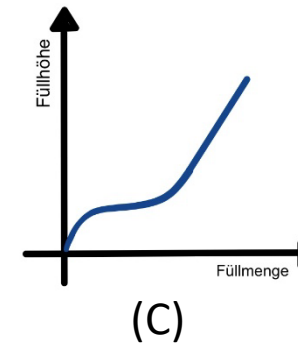
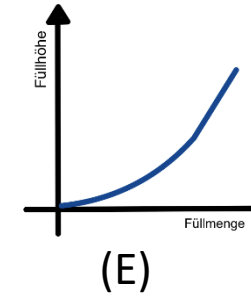
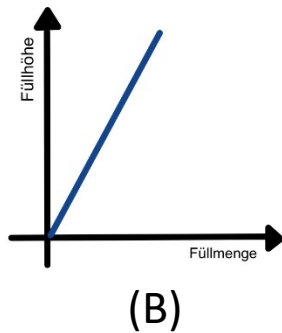
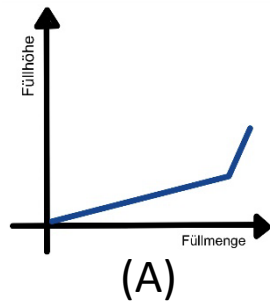
Which graph fits which vessel?



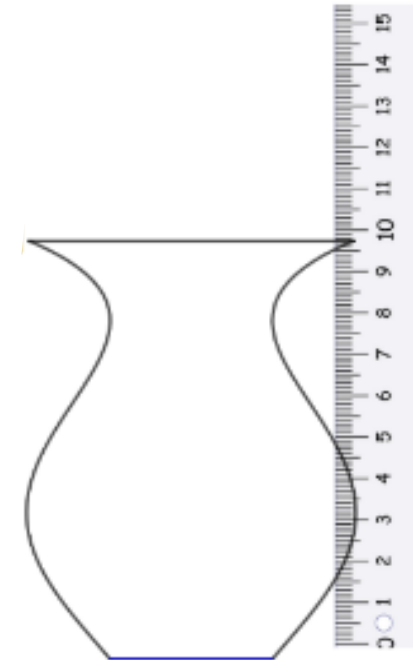
1

2

3

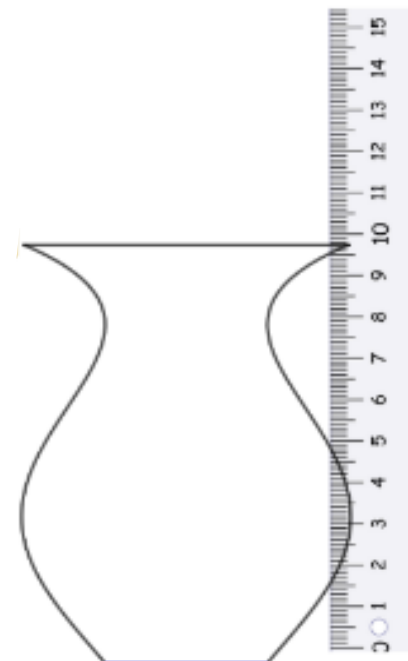


Research assignment



Version A

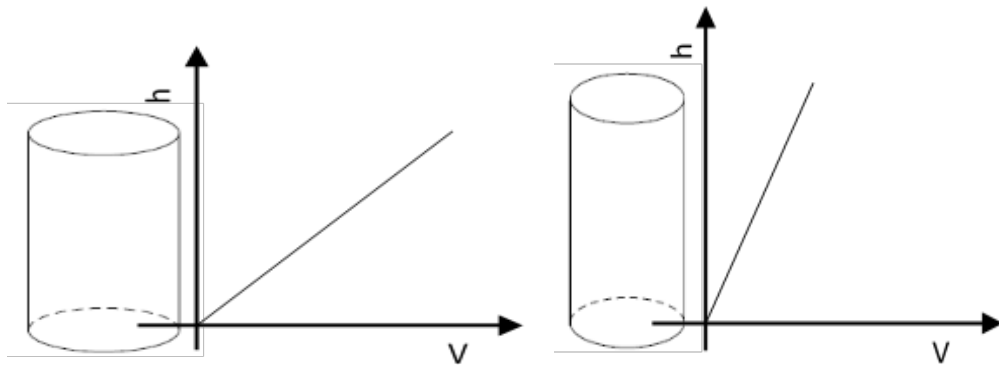
Research assignment



Version C

Research finding “Filling vessels”

Vessels and corresponding graphs



Finding:

With increasing width of the vessel,
 the vessel fills slower and
 the corresponding graph is
flatter.

If the shape of the vessel changes, the
 graph also changes.

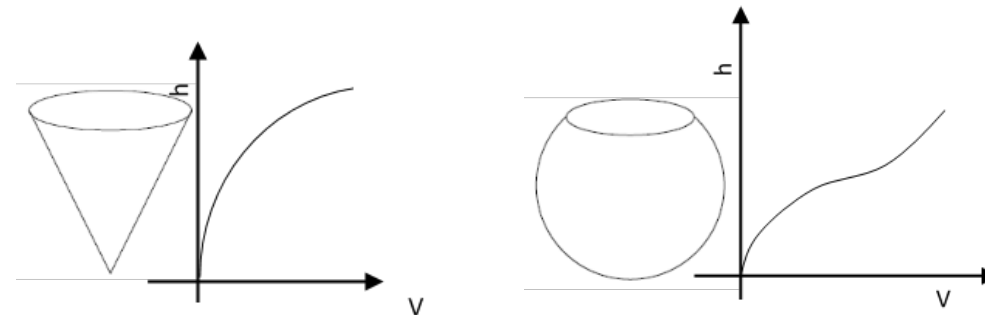
Research finding “Filling vessels”

Finding:

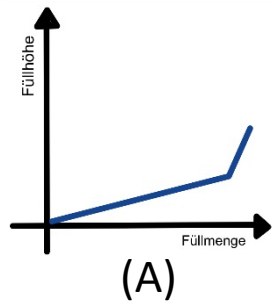
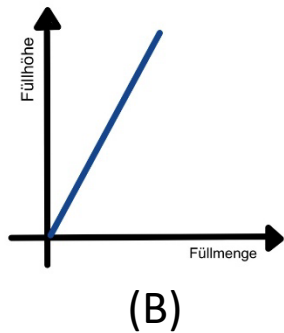
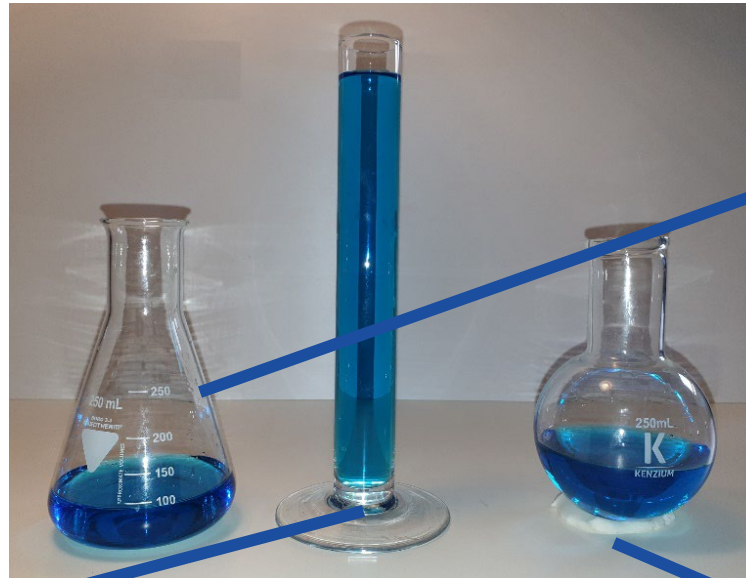
The faster the filling height changes,
 the narrower is the vessel in this
 area.

The corresponding graph runs
steeper.

Vessels and corresponding graphs



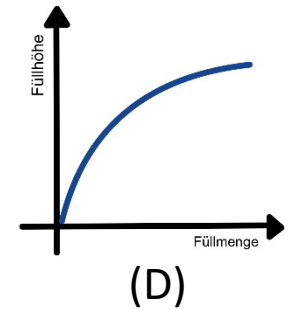
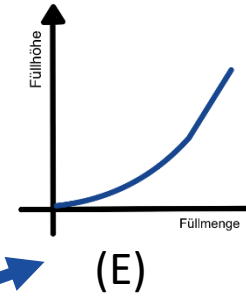
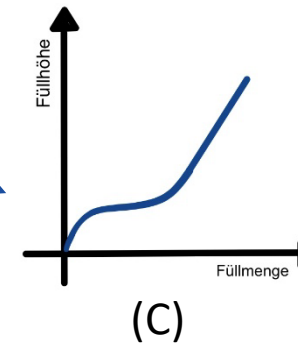
Which graph fits which vessel?



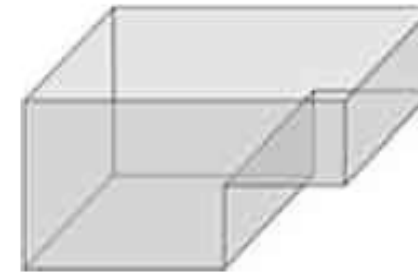
1

2

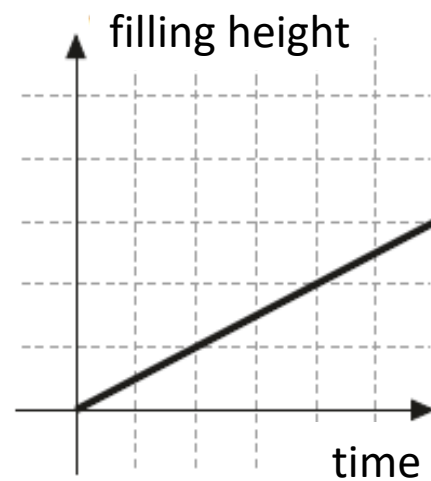
3



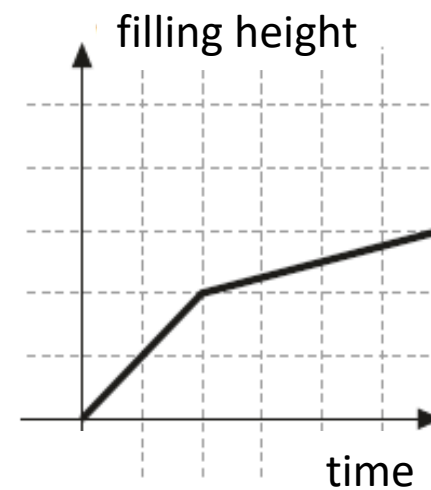
A. Water is let into the pool at an even speed.
 Which of the graphs shown matches this?



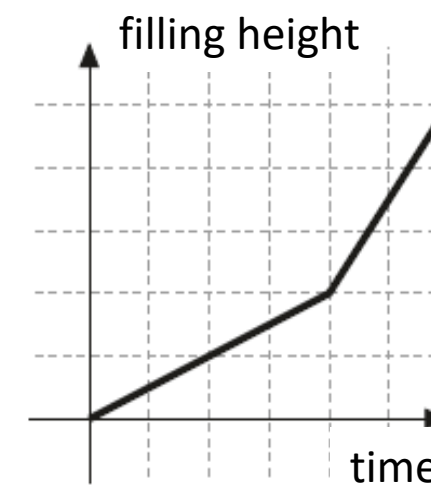
(1)



(2)



(3)



B. Which graph matches the vessel?



①



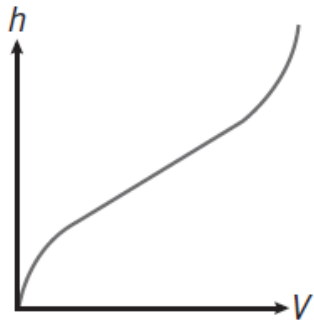
②



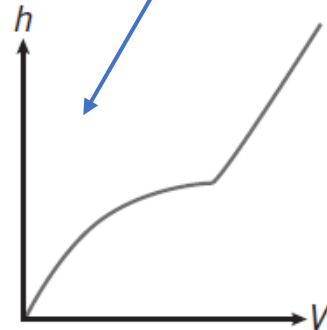
③



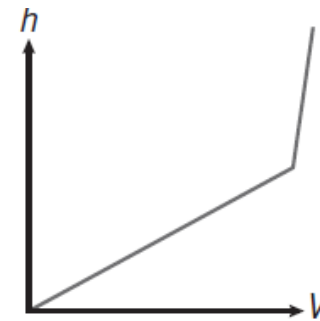
④



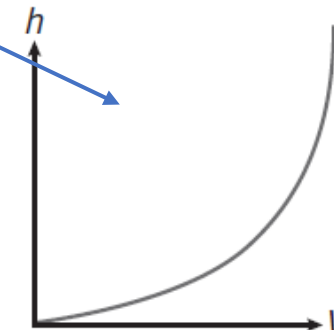
A



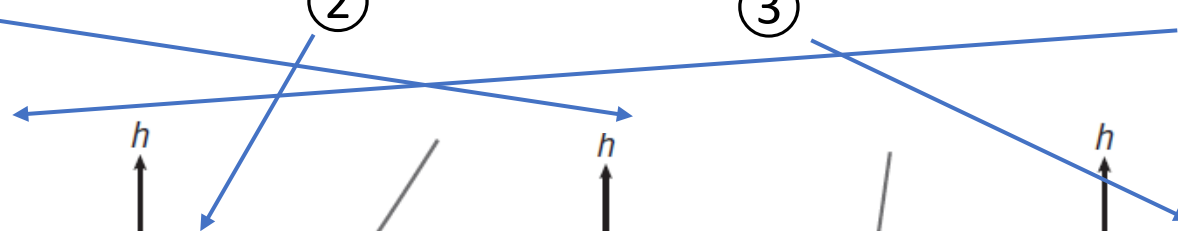
B



C



D



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