

Real-life graphs

Construction and interpretation of
graphs that describe real-life situations-
pouring liquid into containers

Key words to describe relationship between 2 variables

increases

steadily

remains constant

rapidly

steepness

rate

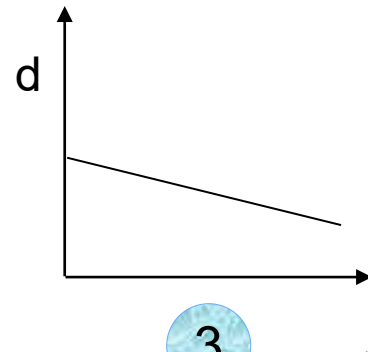
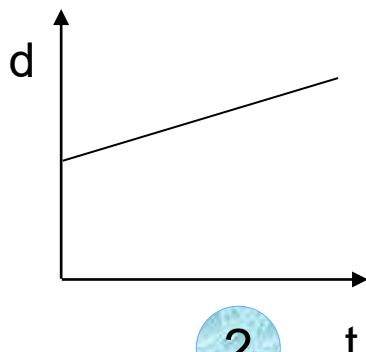
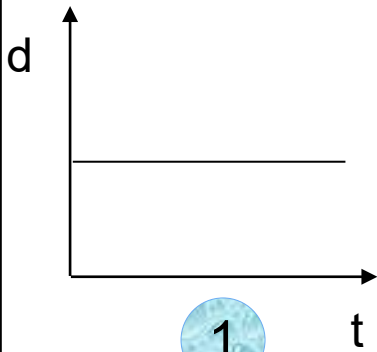
decreases

slow

fast

Graphs of Real-Life Situations (1)

Discuss **what happens to d as t increases** in each of the graphs below, then match each graph to a statement on the right.



2 d increases steadily

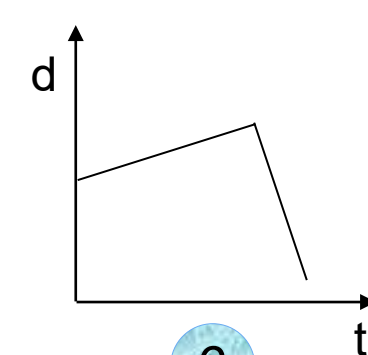
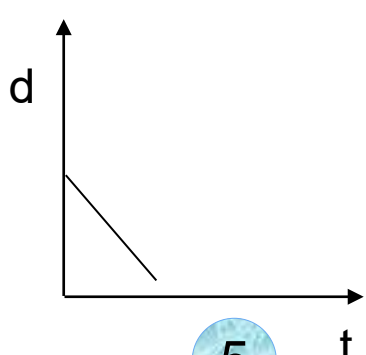
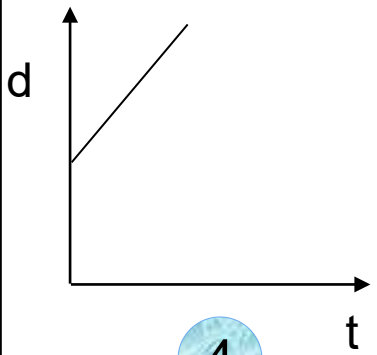
1 d remains constant

5 d decreases rapidly

4 d increases rapidly

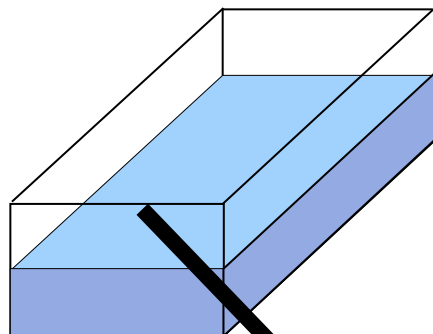
6 d increases steadily, then decreases rapidly

3 d decreases steadily

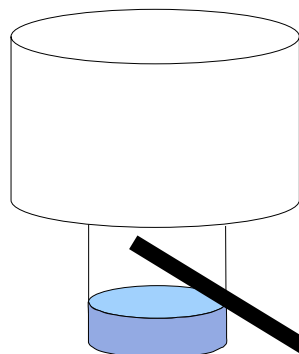


Remember: The steeper the line, the faster the rate of increase/decrease.

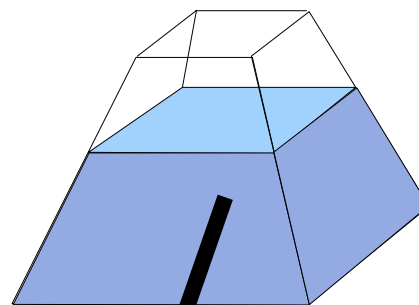
Water is poured into each of the containers below at a constant rate of 250 ml per second. The graphs show how the depth d of the water varies with time t . Match the container to its corresponding graph.



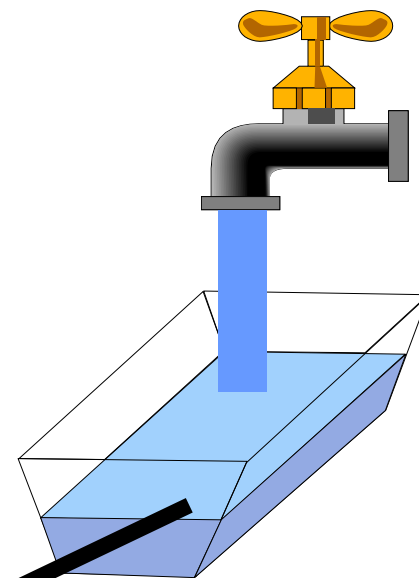
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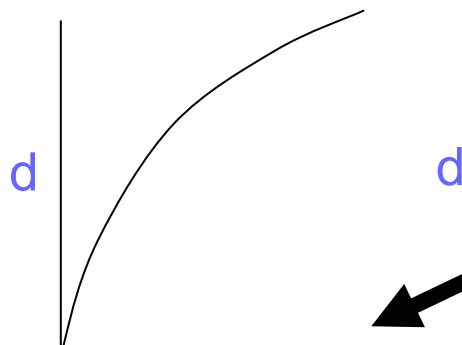
B



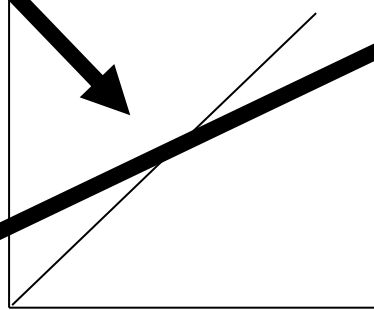
C



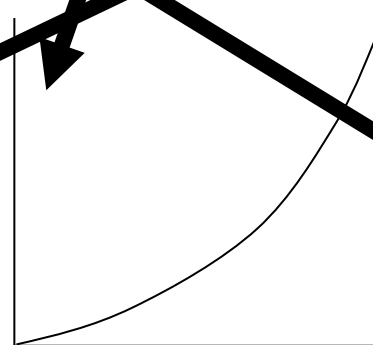
D



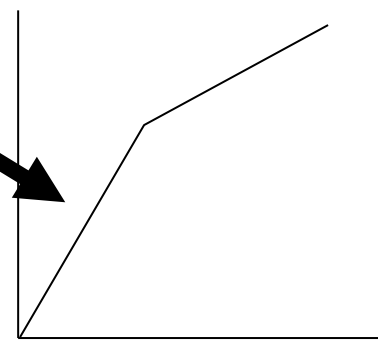
1



2

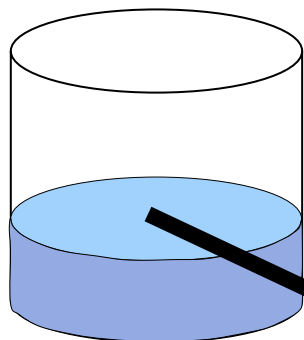


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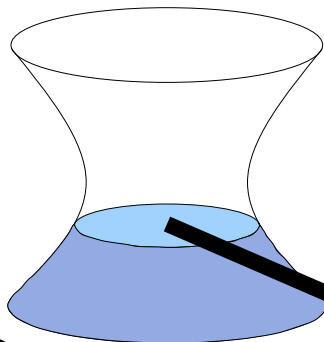


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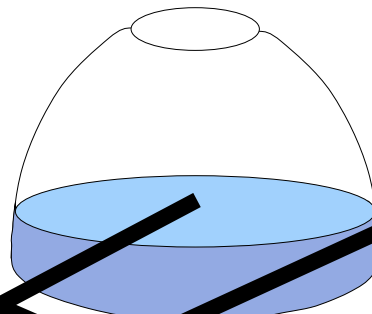
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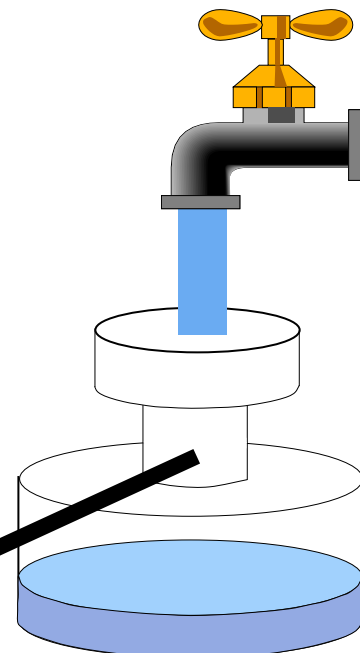
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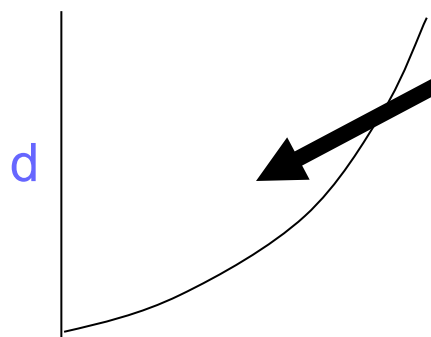
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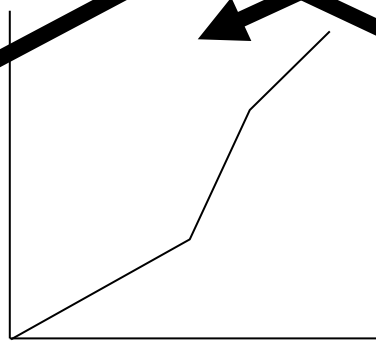
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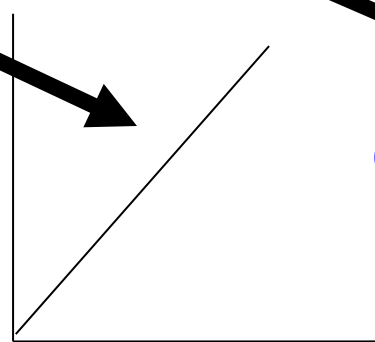
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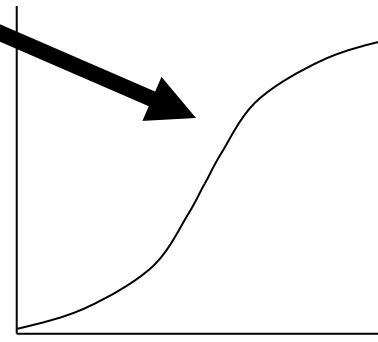
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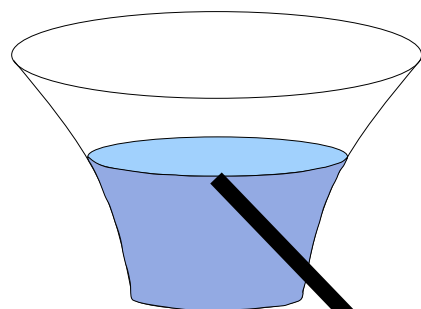


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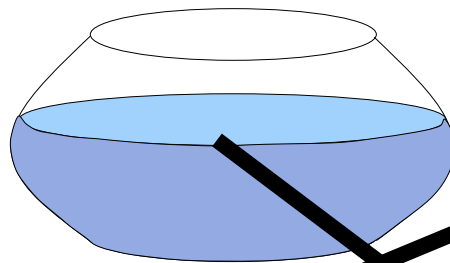


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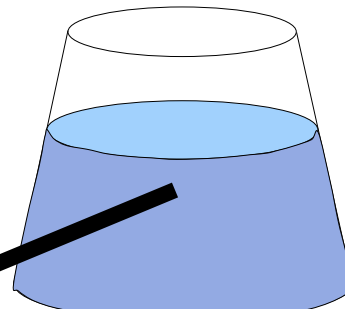
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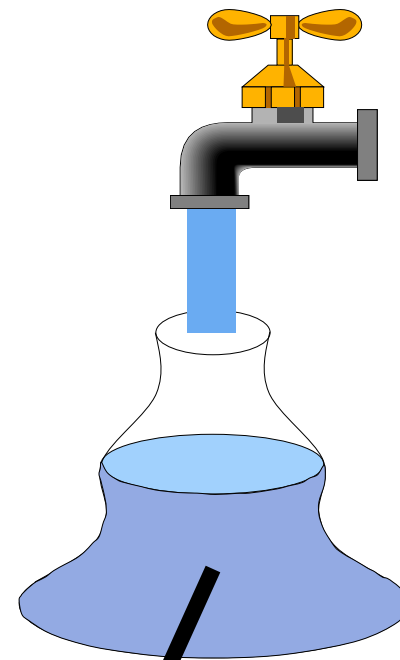
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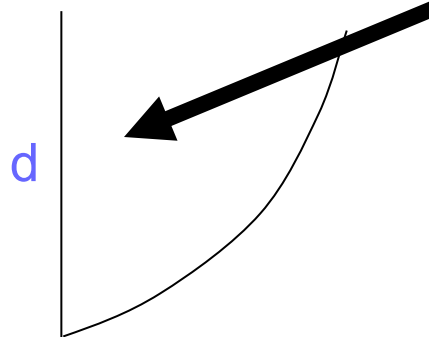
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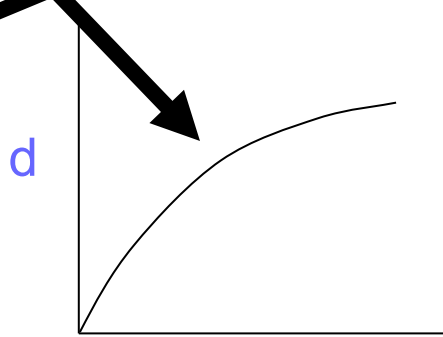
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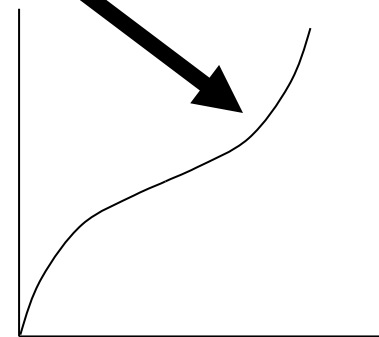
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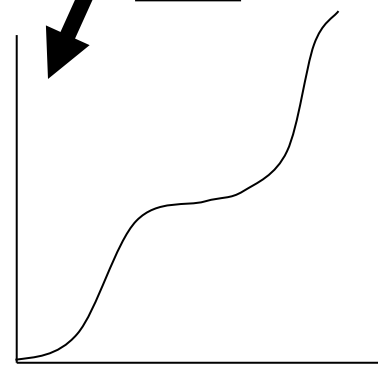
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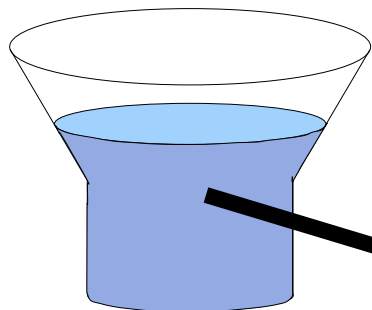


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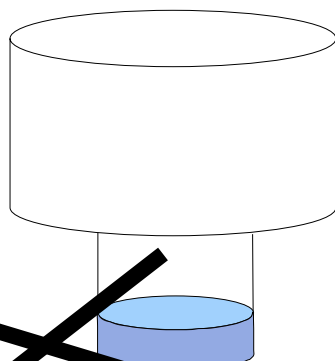


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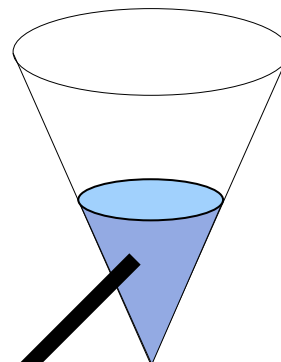
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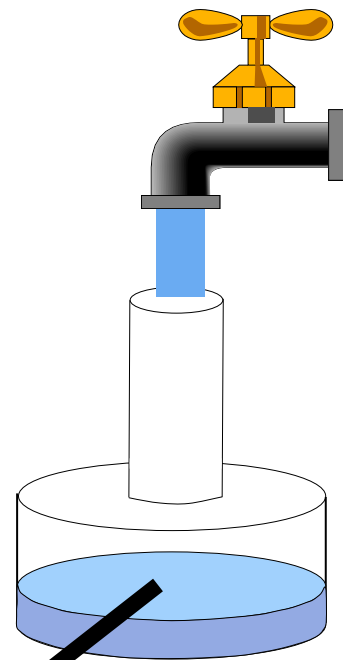
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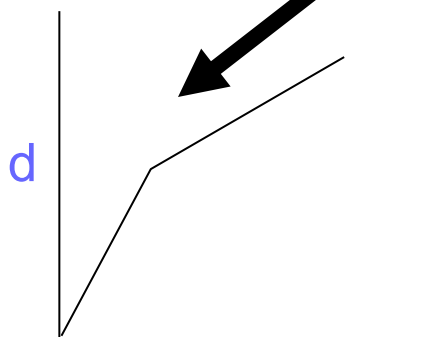
B



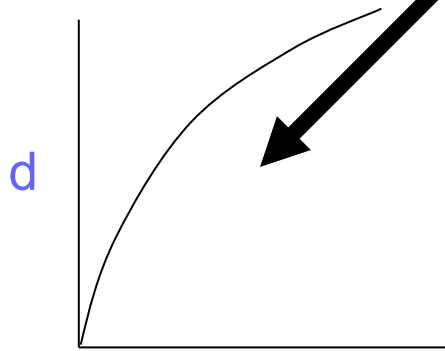
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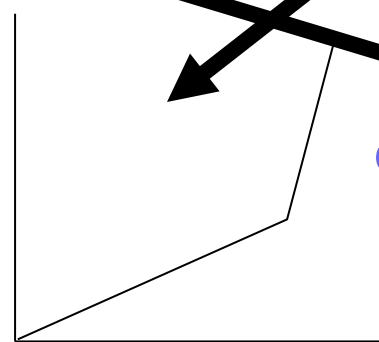
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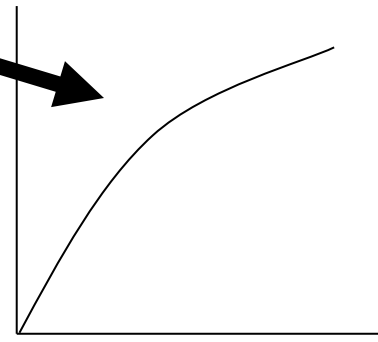
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2

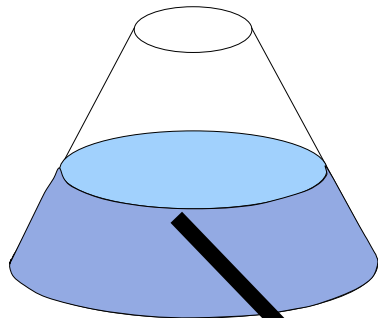


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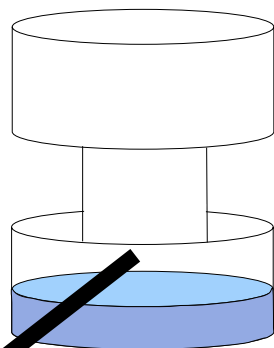


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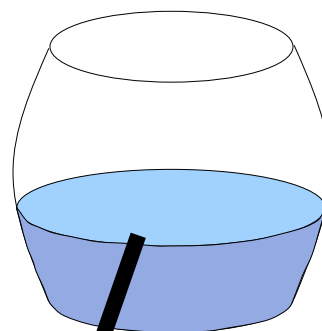
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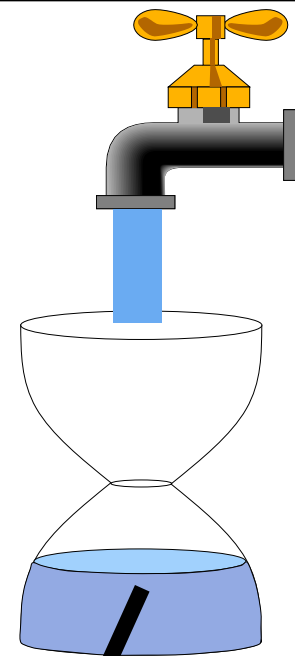
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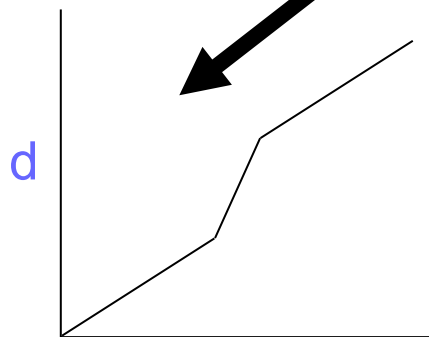
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C

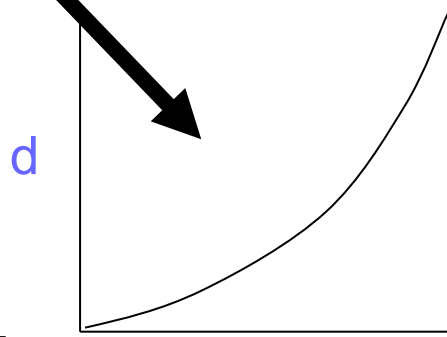


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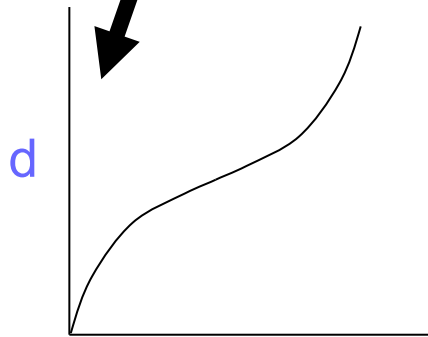
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t



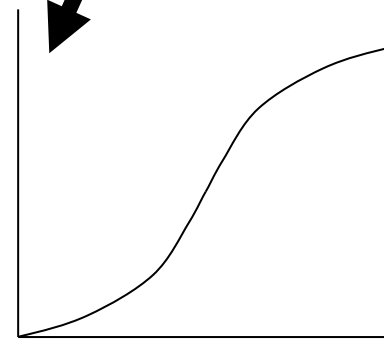
2

t



3

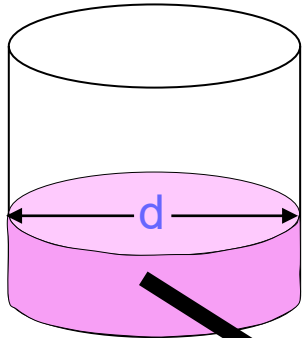
t



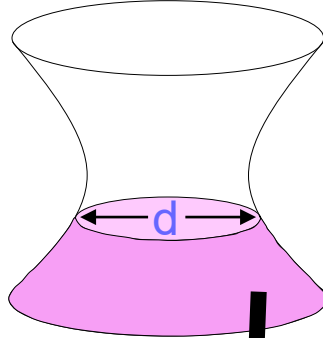
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t

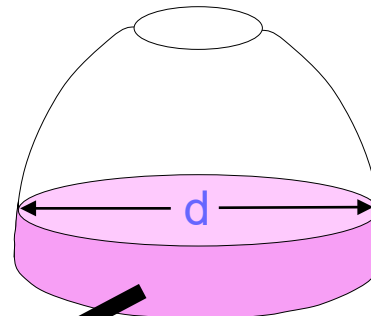
A liquid is poured into each of the containers below. The graphs show how the **surface diameter d** varies as the **height h** of the liquid increases. Match each container with its corresponding graph.



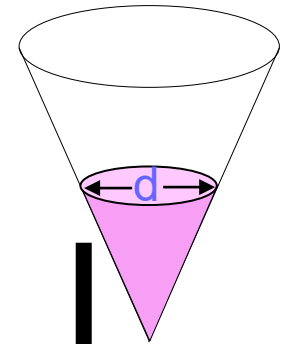
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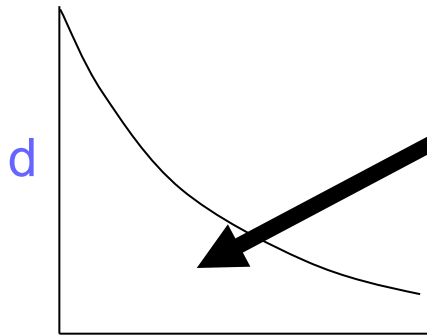
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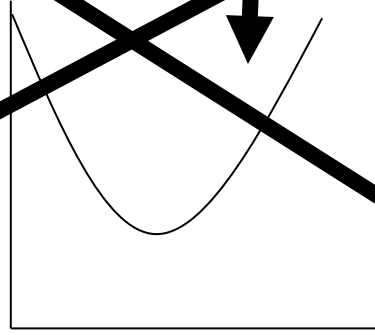
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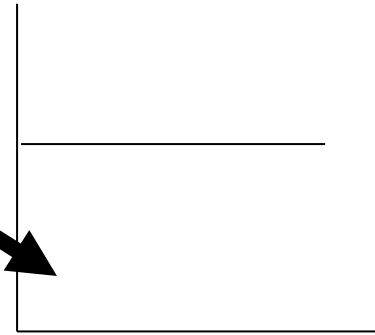
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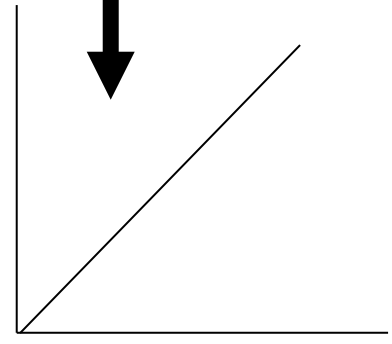
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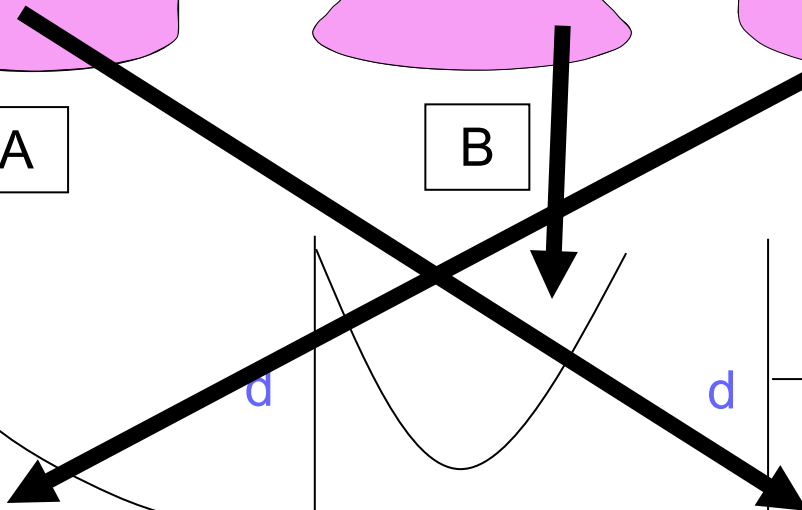
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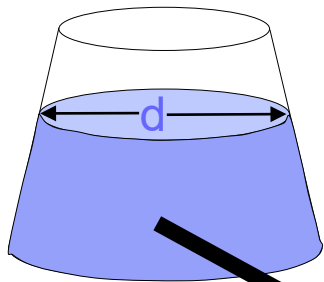
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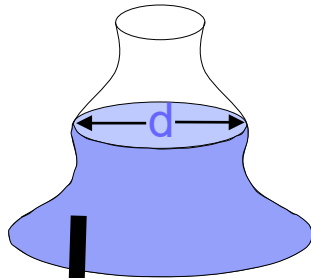
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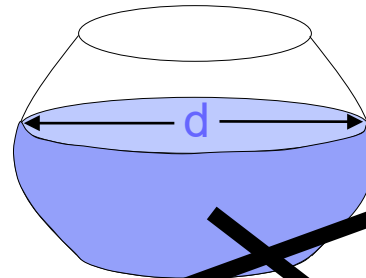
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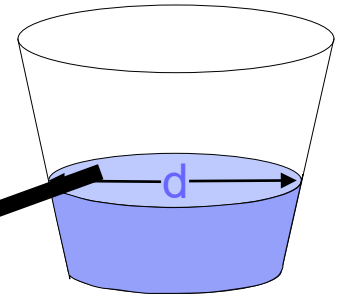
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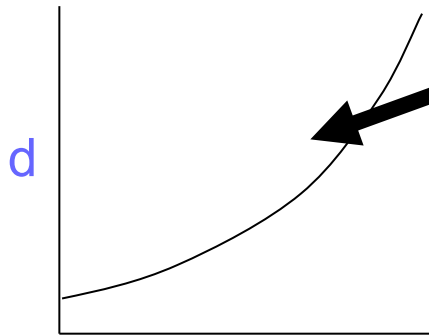
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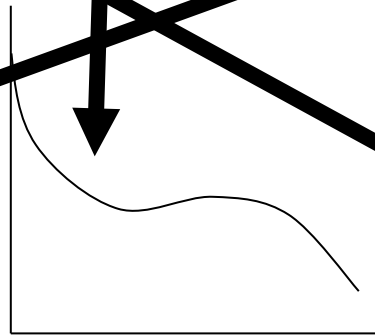


D



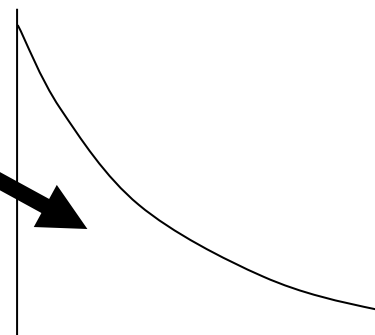
1

h



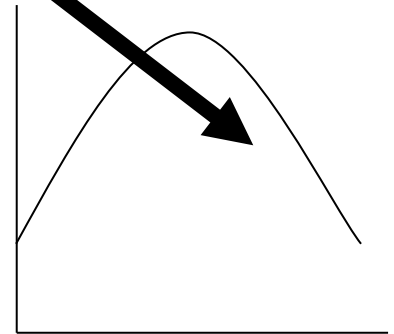
2

h



3

h



4

h