MthT 430 Looking at Gradients
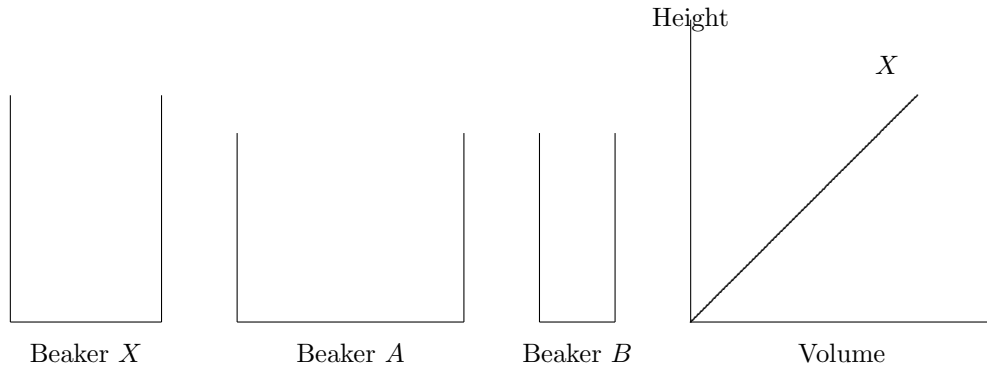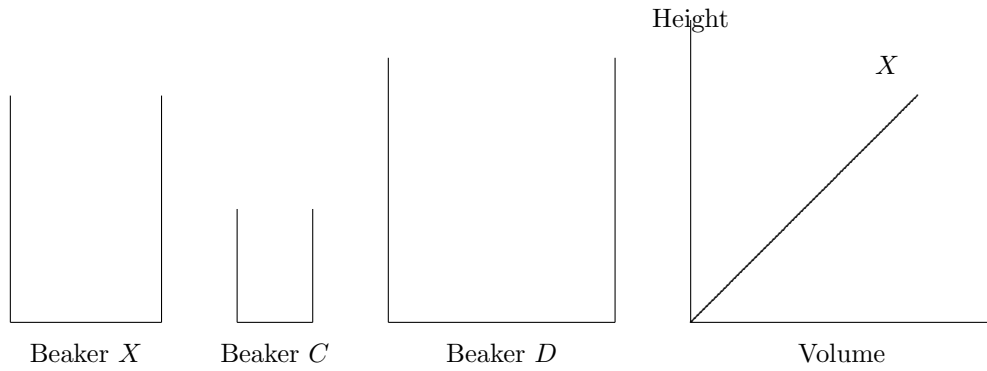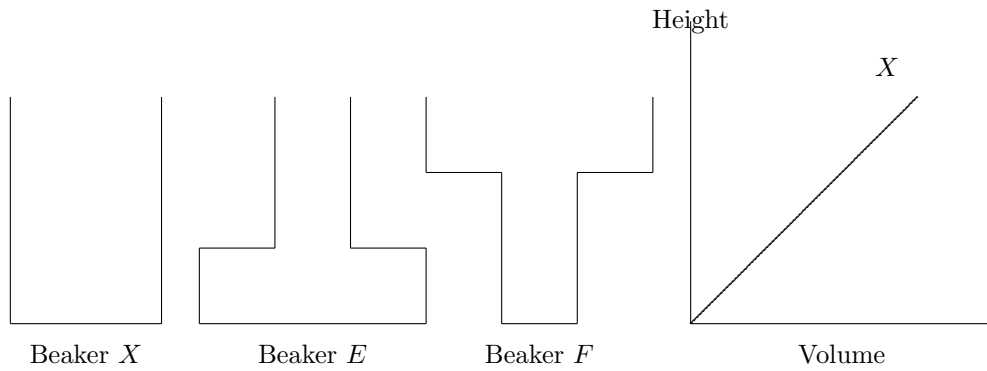
The graph below show how the height of a liquid in beaker X varies as water is steadily dripped into it. Copy the graph, and *on the same diagram* show the height–volume relationship for beakers A and B.

Height

X

Beaker X Beaker A Beaker B Volume

Sketch two more graphs for C and D ...

Height

X

Beaker X Beaker C Beaker D Volume

And two more graphs for E and F ...

Height

X

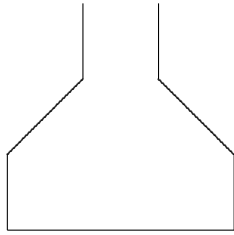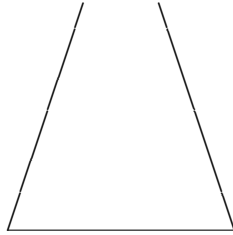Beaker X Beaker E Beaker F Volume

More in this project in class! This project is from **The Language of Functions and Graphs**, Shell Centre for Mathematical Education (Nottingham): `http://www.mathshell.com/`
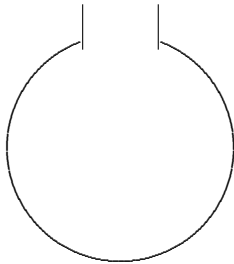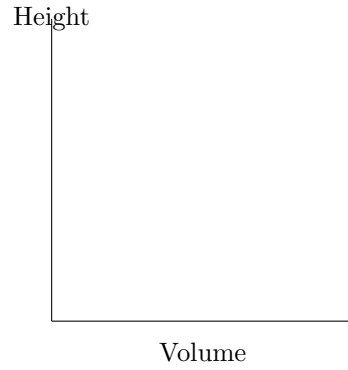
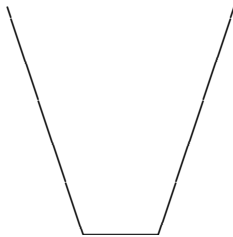Here are 6 bottles. Copy the graph, and *on the same diagram* show the height–volume relationship for the bottles.
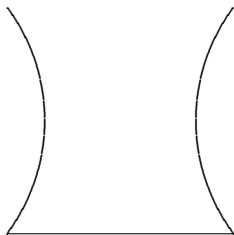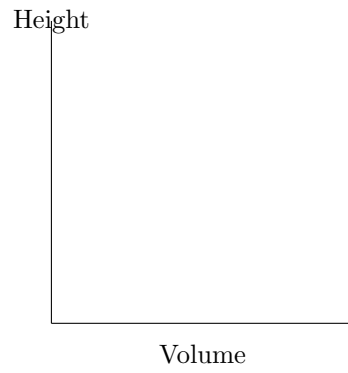
Height

Volume

Ink Bottle

Conical Flask

Height

Volume

Evaporating Flask

Bucket

Height

Volume

Vase

Plugged Funnel