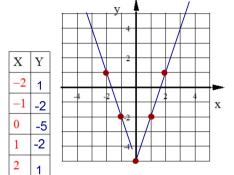
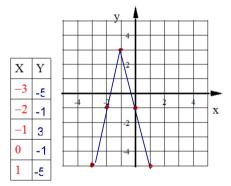
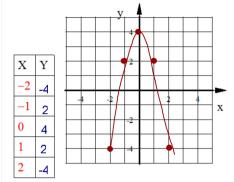
1.
$$y = 3|x| - 5$$



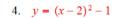
3.
$$y = -4|x+1| + 3$$

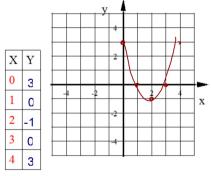


2.
$$y = -2x^2 + 4$$



PARABOLA





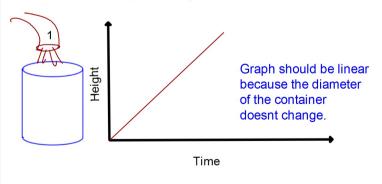
The graph of an equation containing |x| or

always turns out to be a V-SHAPE

These are called Absolute Value Equations

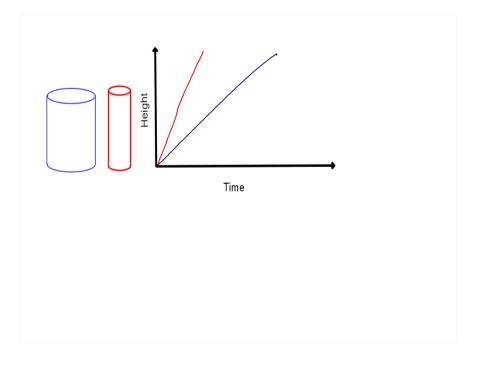
Sec 5-1 Relating Graphs to Events

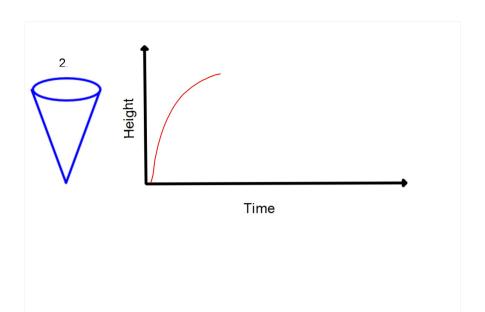
You fill up a container with a steady stream of water from your faucet. Sketch the Height of the water in the container as a function of time for each shape.

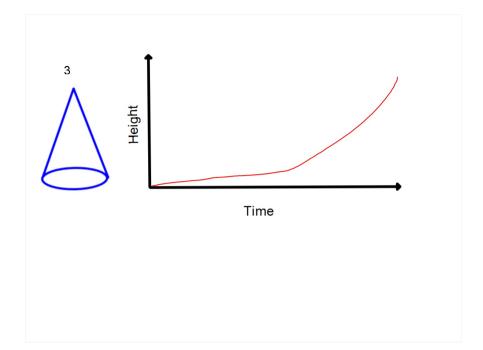


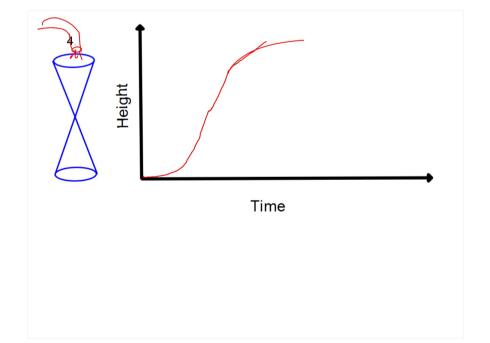
The graph of an equation containing x^2 or $(x^2)^2$ always turns out to be a PARABOLA

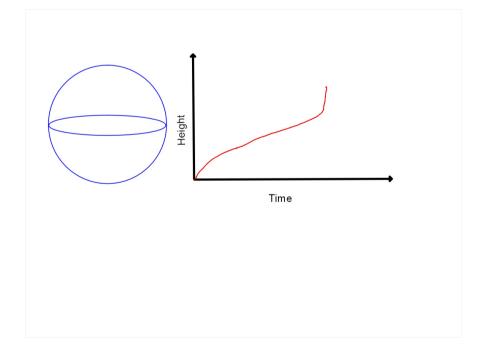
These are called Quadratic Equations

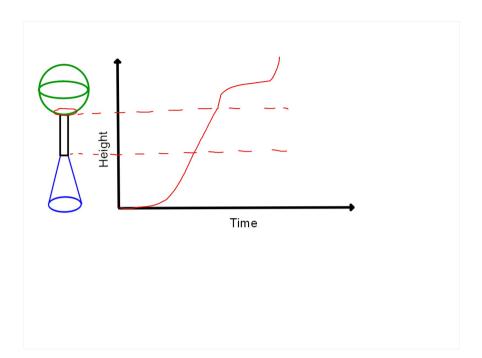








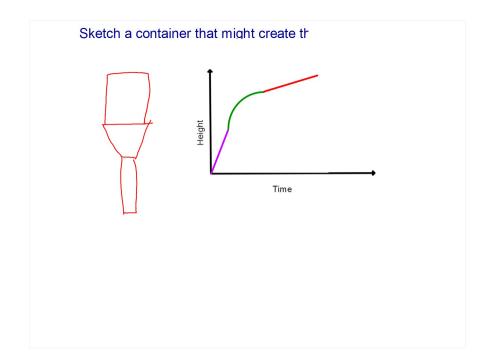




Hwk #18: Due Monday Sec 5-1

Pages 238-239

Problems 2, 4, 6, 7, 9, 12, 14, 16



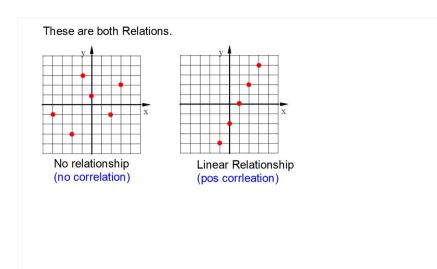
Sec 5-2: Relations and Functions

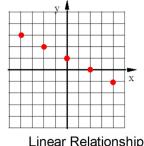
1. What is a Relation?

Relation: A set of ordered pairs.

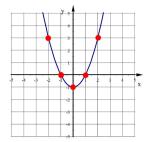
A bunch of points.

These points may or may not have a particular relationship





Linear Relationship (Neg corrleation)



Quadratic Relation