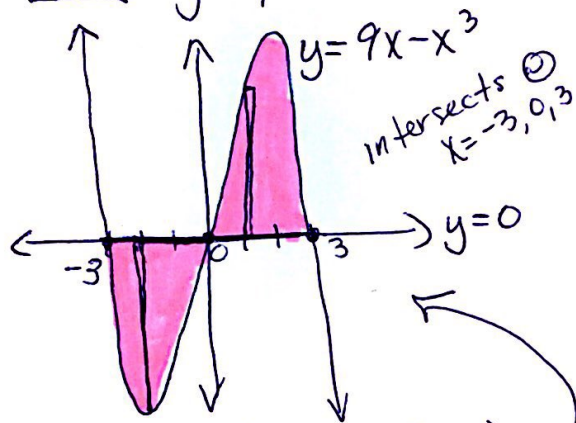


What to do if CAN'T write equation as $y = \dots$
 in order to graph?

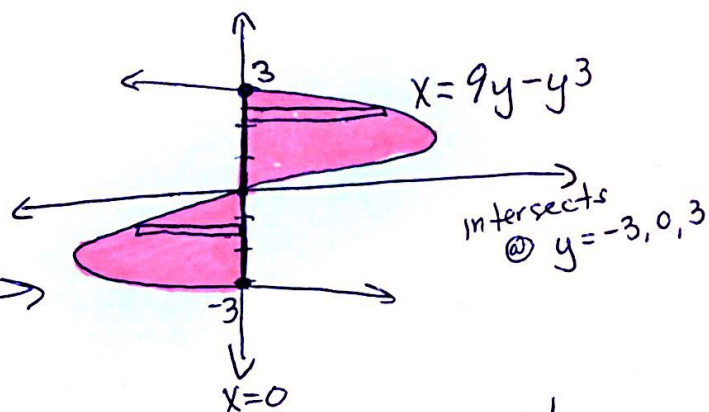
Ex. $x = 9y - y^3$; $x = 0$

You could graph in calculator where $y = x \Rightarrow y = 9x - x^3$
 and $y = 0$



* This is the graph of the inverse
 of your equations. So the
REAL graph would have x & y
 switched.

* Note that (top-bottom)
 in this graph
 is same as (right-left)
 in REAL graph



Area of top graph:

$$\int_{-3}^0 (0 - (9x - x^3)) dx + \int_0^3 (9x - x^3) - 0 dx$$

(or use symmetry)

Area of REAL graph

$$\int_{-3}^0 (0 - (9y - y^3)) dy + \int_0^3 (9y - y^3) - 0 dy$$

SAME just
 need to write y's instead of x's.

Be careful! If doing this, you must switch x & y for all
 equations given in problem then pretend that it is
 "normal". But on paper, set up integral with correct
 variable. If REALLY y's, make sure to write y's.