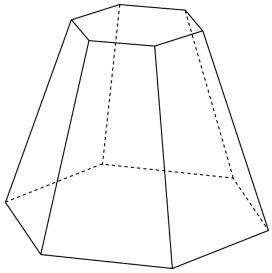
MATHS TEST . Frusta. Functions 4° ESO. May 2013

Name:.....N°:.....course:.....

1) Find the volume of a hexagonal pyramid frustum with a bottom base of side 12 m, a top base of side 8 m and a height of 15 m.



2) Find the domain of the following functions:

a) $\sqrt{-4x^2+12}$

b) $\dfrac{3}{\sqrt{2x-4}}$

3) Find the symmetry of the following functions:

a) $f(x)=x^3+2x$

b) $f(x)=\dfrac{x^2-3}{5x^2}$

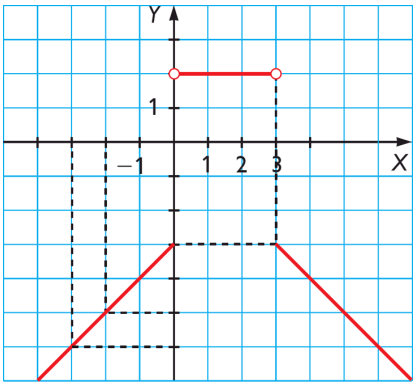
4) If $f(x)=-3x+1$ and $g(x)=x^2-1$

a) find *f(g(x)*

b) find *g(f(x)*

c) find *x* when *g(f(x) = 2*

5) Find the algebraic expression for the following piecewise function:



6) Draw the following function $y=-x^2+6x-5$

question	1	2	3	4	5	6
points	3	1	1	1,5	2	1,5