

[09-10-09-T11]

[1] Prove that for a given number $a \neq 0$, the functions defined by $f(x) = a^x$ and $g(x) = a^{-x}$ are symmetric with respect to the y-axis.

[2] Using a machine that will produce graphs, compare the functions $f(x) = x^2$ and $g(x) = 2^x$. Estimate the coordinates of the points of intersection.