

STEP Exercises - Transformations (1 page; 18/9/18)

(1) Suppose that $y = f(x)$ is reflected in the line $x = a$, to give $y = f(u)$. Find u in terms of x .

(2) What combination of transformations converts $y = 2^x$ to $y = 2^{4x-2}$?

(3) What happens to the graph of $y = f(x)$ when it is transformed to:

(a) $y = f(|x|)$ (b) $|y| = f(x)$

(4) Sketch the following:

(i) $y = \ln(1 - x)$

(ii) $y = \ln(x^2 - 1)$

(iii) $y = \ln|x^2 - 1|$