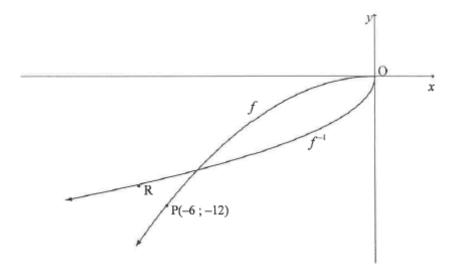
Gr 12

Informal Test

Function and Inverses

QUESTION 4

In the diagram below, the graph of $f(x) = ax^2$ is drawn in the interval $x \le 0$. The graph of f^{-1} is also drawn. P(-6; -12) is a point on f and R is a point on f^{-1} .



- 4.1 Is f^{-1} a function? Motivate your answer. (2)
- 4.2 If R is the reflection of P in the line y = x, write down the coordinates of R. (1)
- 4.3 Calculate the value of a. (2)
- 4.4 Write down the equation of f^{-1} in the form y = ... (3)