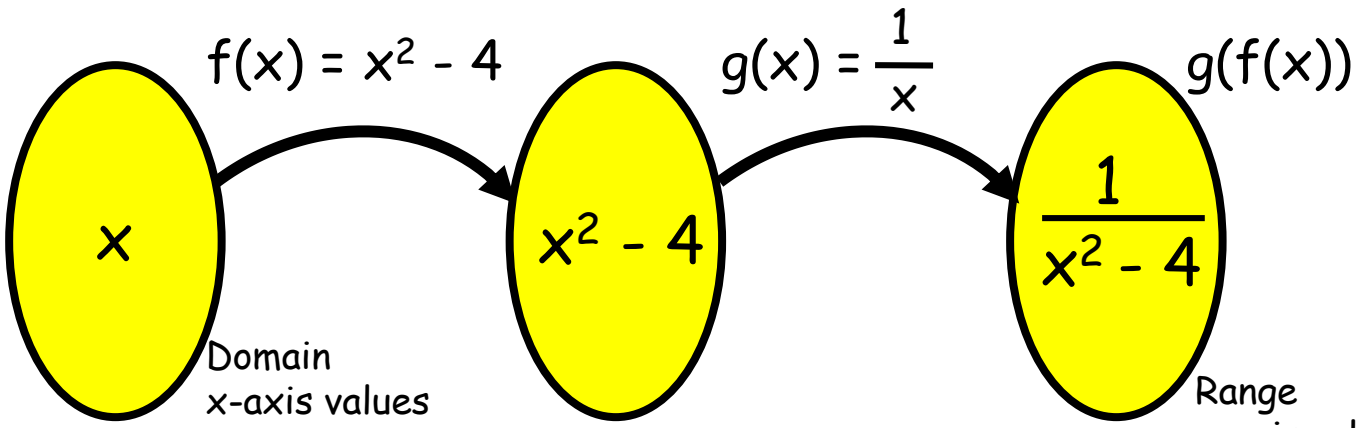


$g(f(x)) =$

Write down g(x) with brackets for x

$$g(x) = \frac{1}{(\ \ )}$$

inside bracket put f(x)

$$g(f(x)) = \frac{1}{x^2 - 4}$$

Restriction $x^2 - 4 \neq 0$

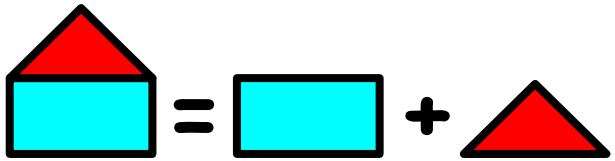
$(x - 2)(x + 2) \neq 0$

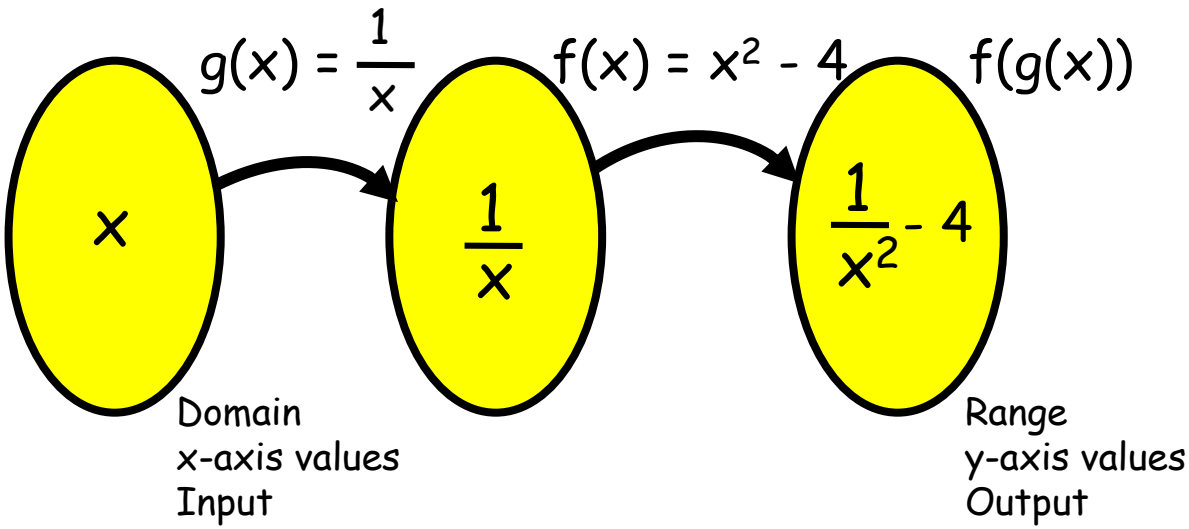
$x \neq 2 \quad x \neq -2$

Similar to composite Area

A complex function made up of 2 or more simpler functions

Composite Functions





$f(g(x)) =$

Write down f(x) with brackets for x

$$f(x) = (\ \ )^2 - 4$$

inside bracket put g(x)

$$f(g(x)) = \left(\frac{1}{x}\right)^2 - 4 = \frac{1}{x^2} - 4$$

Restriction $x^2 \neq 0$