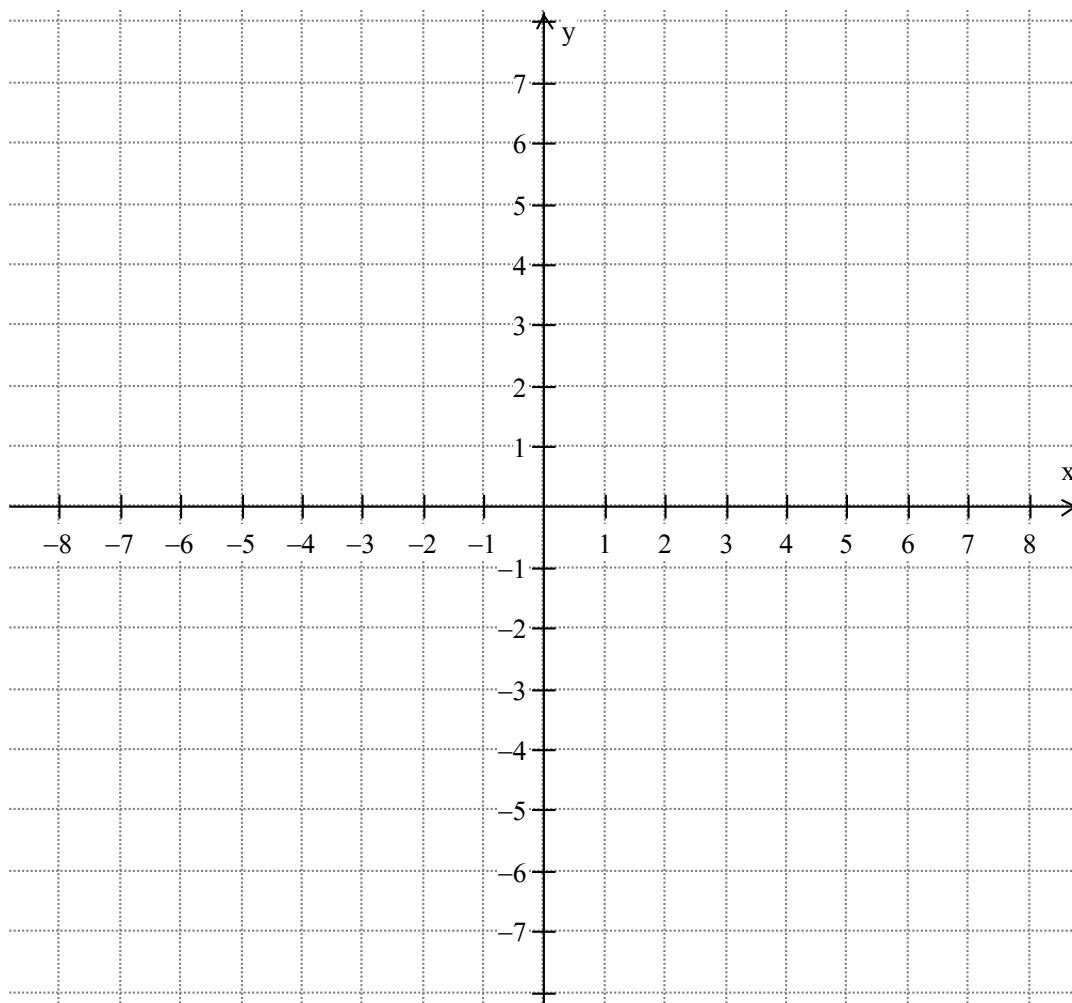


**MHF4U**  
**Exponential and Logarithmic Functions**

1. Let  $y = f(x) = -2^{x-1} + 4$

Find:

- a) Domain
- b) Range
- c) x-int
- d) y-int
- e) horizontal asymptote
- f) vertical asymptote
- g) the graph the function on the grid below by using transformations

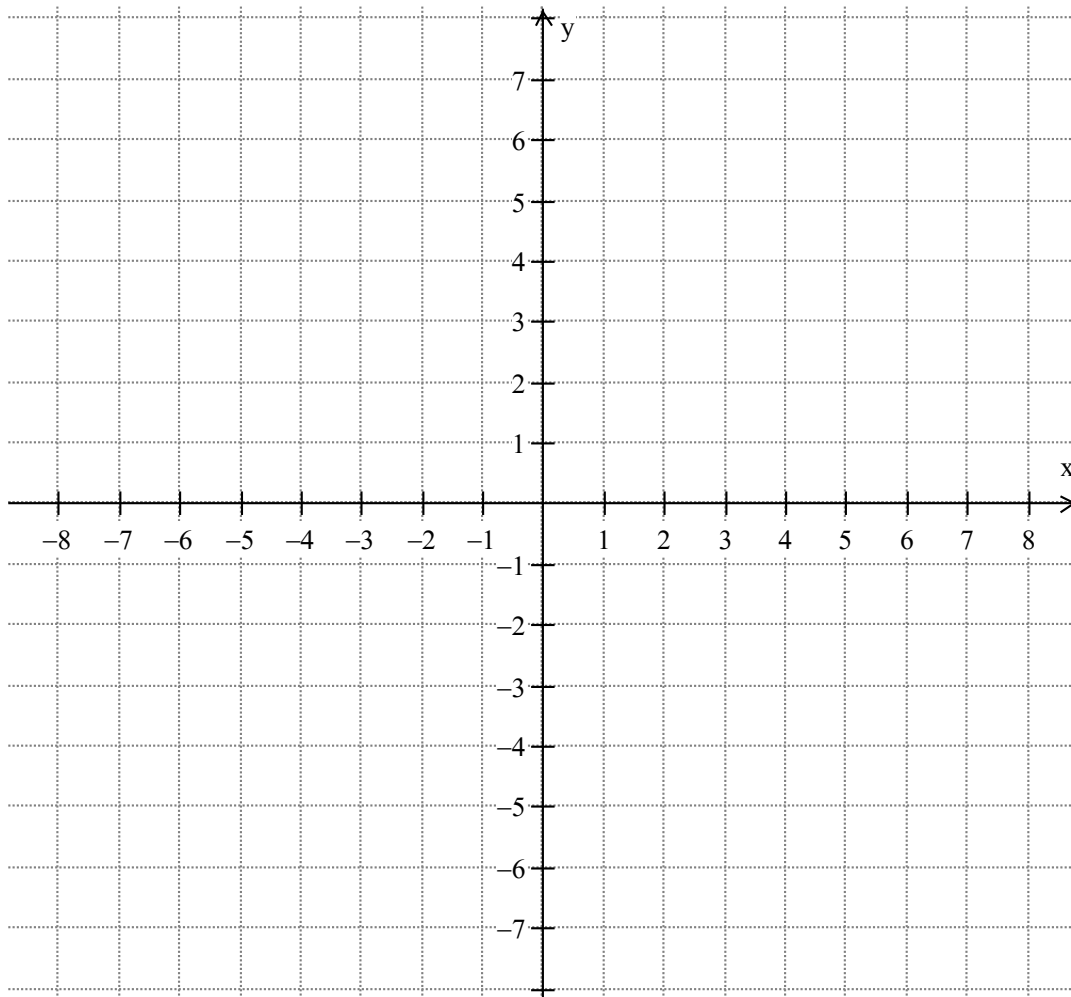


- h) the inverse function  $f^{-1}(x)$

2. Let  $y = f(x) = 2\log_{0.5}(x+2) - 2$

Find:

- i) Domain
- j) Range
- k) x-int
- l) y-int
- m) horizontal asymptote
- n) vertical asymptote
- o) the graph the function on the grid below by using transformations



- p) the inverse function  $f^{-1}(x)$