

## IB Functions Problem 016

Let  $f(x) = \ln(x + 2)$ ,  $x > -2$  and  $g(x) = e^{x-4}$ ,  $x > 0$ .

- A. Find where the graph of  $f$  intersects the  $x$ -axis.
- B.
  - i. Find  $f(-1.999)$ .
  - ii Find the range of  $f$ .
- C. Find the coordinates of the point of intersection of the graphs of  $f$  and  $g$ .