

5 **(i)** *(A)* Sketch the graph of $y = 3^x$. **[1]**

(B) Give the coordinates of any intercepts. **[1]**

The curve $y = f(x)$ is the reflection of the curve $y = 3^x$ in the line $y = x$.

(ii) Find $f(x)$. **[1]**