1 (10 points). Find the inverse of the function  $f(x) = \ln(3x + 1)$ .

$$f(x) = \sqrt{3x+1}$$

$$\Rightarrow y = ln(3x+1)$$

$$\Rightarrow e^{y} = \ln(3x+i)$$

$$= 3x+i$$

$$\frac{2}{2} = \times$$

$$=) f^{-1}(x) = e^{-1}$$