Name: Key

Exercise 1. (5 points) Find the inverse function of

$$f(x) = \frac{4x - 1}{2x + 3}.$$

$$51: y = \frac{4x-1}{2x+3}$$

S3:
$$x(2y+3) = 4y-1$$
 $2xy+3x = 4y-1$
 $2xy-4y=-3x-1$
 $y(2x-4) = -3x-1$

$$y = \frac{-3\alpha - 1}{z_x - 4}$$

$$\int_{-1}^{1} (x) = \frac{-3\alpha - 1}{z_x - 4}$$

Exercise 2. (5 points) Use the properties of logarithms to expand the quantity

$$\ln(x^2y^3).$$

Your answer should have no exponents.

$$h(x^2y^3) = h(x^2) + h(y^3)$$
$$= 2hx + 3hy$$