

1. Let  $f$  be the function given by  $f(x) = \sqrt{3x - 6}$ .

(a) Find a formula for  $f^{-1}(x)$ .

(b) Find the domain and range of  $f^{-1}$ .

2. Let  $f(x) = 3x^2 + 1$ , for  $x \leq 0$ .

(a) Find a formula for  $f^{-1}(x)$ .

(b) Find the domain and range of  $f^{-1}(x)$ .