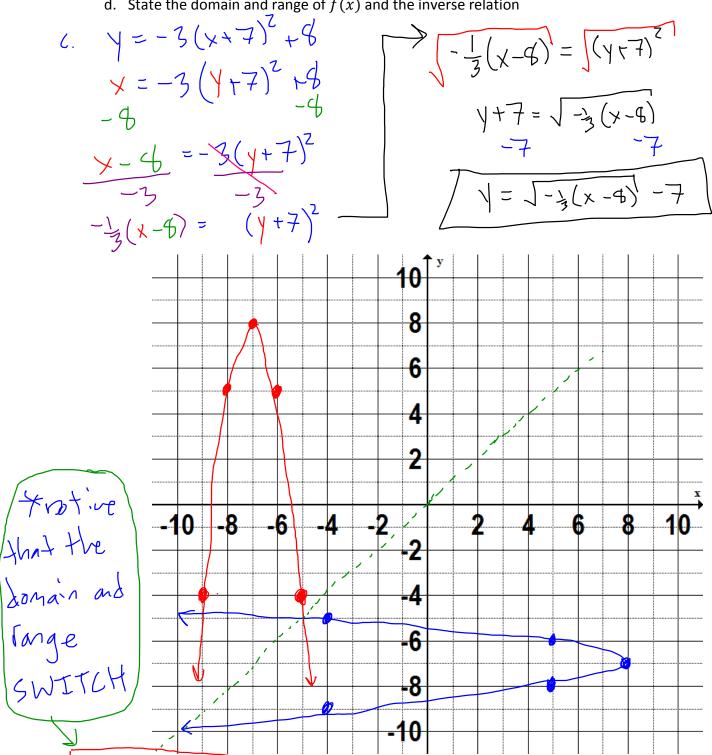
Determining the Inverse of a Quadratic Function

Example

Given the quadratic function $f(x) = -3(x+7)^2 + 8$

- a. Graph f(x) and its inverse b. Determine whether the inverse of f(x) is also a function f(x) is also a function f(x) betarmine the equation of the inverse f(x)
- d. State the domain and range of f(x) and the inverse relation



(-1(x): Somain = {x < } | x < 8} range = 8f-1(x) E R3

f(x): boman = \(x \in R\) inge = \(\frac{1}{3} \) \(\text{R} \) \(\frac{1}{3} \)