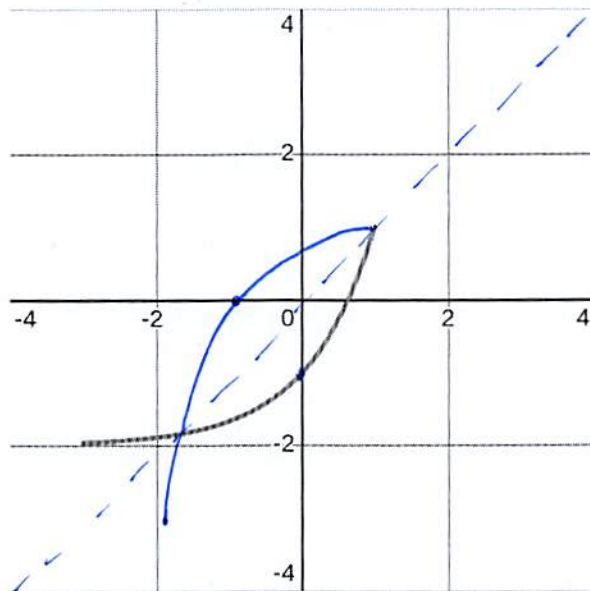


Name: Solutions

Section: 7 8

1. Graph the inverse function on the same plot.



2. Find a formula for the inverse of  $f(x) = \frac{x+3}{x-7}$ .

$$y = \frac{x+3}{x-7}$$

$$x = \frac{y+3}{y-7}$$

$$x(y-7) = y+3$$

$$xy - 7x = y+3$$

$$xy - y = 7x + 3$$

$$(x-1)y = 7x + 3$$

$$y = \frac{7x+3}{x-1}$$

$$f^{-1}(x) = \frac{7x+3}{x-1}$$