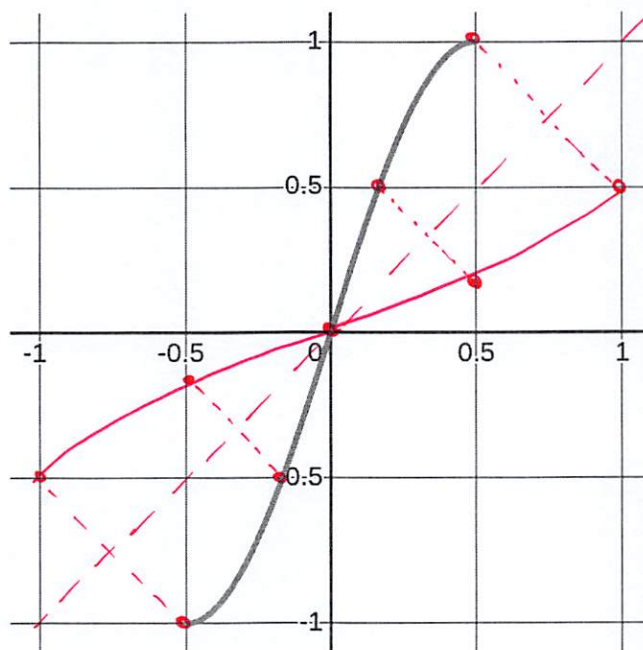


Name: *Solutions*

Section: 11 12 13

1. Graph the inverse function on the same plot.

2. Find a formula for the inverse of  $f(x) = 2x^3 - 1$ .

$$y = 2x^3 - 1$$

$$\Rightarrow x = \frac{y+1}{2}$$

$$\Rightarrow x+1 = \frac{y+1}{2} + 1 = \frac{y+1+2}{2} = \frac{y+3}{2}$$

$$\Rightarrow \frac{x+1}{2} = \frac{y+3}{2}$$

$$\Rightarrow y = \frac{x+1}{2}$$

$$\therefore f^{-1}(x) = \left(\frac{x+1}{2}\right)^{1/3}$$