

Write the equation of the inverse relation for each function below.

1. $y = 2\left(\frac{\sqrt{6x+1}}{11}\right)^5 - 3$

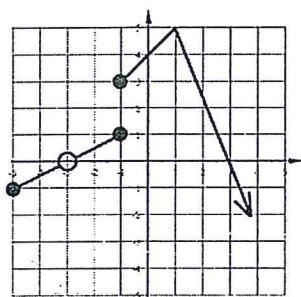
2. $y = \frac{6\left(\frac{2x-5}{8}\right)^4 - 9}{7}$

$f^{-1}(x) =$

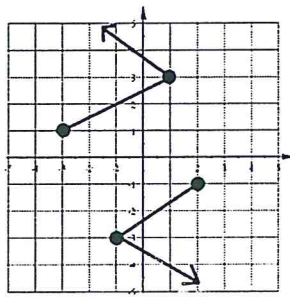
$f^{-1}(x) =$

Find the domain and range of the inverse relation to the graphs of $f(x)$ shown below:

3.



4.



5. Given: $y = \frac{\sqrt{x+6}}{x-1}$ Is the inverse relation a function?

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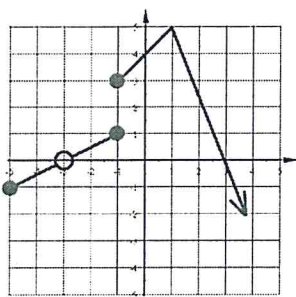
2. $y = \frac{6\left(\frac{2x-5}{8}\right)^4 - 9}{7}$

$$f^{-1}(x) = \frac{\left[11 \cdot \sqrt[5]{\frac{x+3}{2}}\right]^2}{6} - 1$$

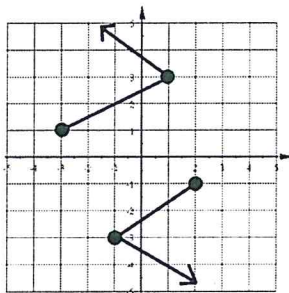
$$f^{-1}(x) = \frac{\left[\pm \sqrt[4]{\frac{7x+9}{6}}\right] \cdot 8 + 5}{2}$$

Find the domain and range of the inverse relation to the graphs of $f(x)$ shown below:

3.



4.



ORIGINAL
Domain: ~~$[-5, -3) \cup (-3, \infty)$~~
 $[-5, -3) \cup (-3, \infty)$
Range: $(-\infty, 5]$

ORIGINAL
Domain: $(-\infty, \infty)$
Range: $(-\infty, -1] \cup [1, \infty)$

INVERSE
Domain: $(-\infty, 5]$
Range: $[-5, -3) \cup (-3, \infty)$

INVERSE
Domain: $(-\infty, -1] \cup [1, \infty)$
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5. Given: $y = \frac{\sqrt{x+6}}{x-1}$ Is the inverse relation a function?

Yes, inverse is a function

original function passes
Horizontal Line Test

