

$$2$$

domain  $x > 0$

range  $y < 4$

$$x \geq 0$$

$$4 + x + 8$$

$$x + \sqrt{x}$$

Start

$x$	2	4	6
$f^{-1}(x)$	1	3	5

$$f^{-1}(x) = \frac{x-5}{2}$$

Domain  $x \geq 2$

Range  $\mathbb{R}$

$x$	2	8	1
$f^{-1}(x)$	0	10	20

$$f^{-1}(x) = (x+1)^2$$

Find the  
inverse:

$$f(x) = 2x + 5$$

x	1	2	3
f(x)	3	5	7

Find  $f^{-1}(3)$

$$f(x) = \sqrt{x} - 1$$

find

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

x	2	4	6
f(x)	4	1	9

Find  $f^{-1}(4)$

For  $a(x)$ :

domain is  $x < 4$

range is  $y > 0$

Find domain and

range for  $a^{-1}(x)$

$$f(x) = 4x$$

$$g(x) = x + 2$$

Find  $f(g(x))$

For  $a(x)$ :

domain is  $\mathbb{R}$

range is  $x \geq 2$

Find domain +

range for  $a^{-1}(x)$

x	0	10	20
f(x)	2	8	1

Find

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

$$f(x) = x + 1$$

$$g(x) = \sqrt{x}$$

Find the domain  
of  $f(g(x))$

x	1	3	5
f(x)	2	4	6

Find

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

End.

$$f(x) = \sqrt{x}$$

$$g(x) = x^2 + x$$

Find  $g(f(x))$