

Cont. 7.7 Inverse Relations and Functions

Ex1a Find the inverse relation

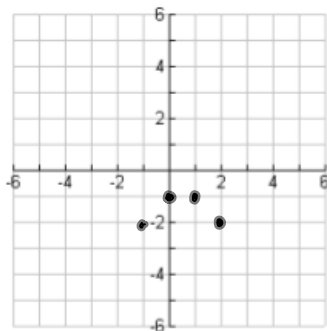
x	-1	0	1	2
y	-2	-1	-1	-2

x	-2	-1	-1	-2
y	-1	0	1	2

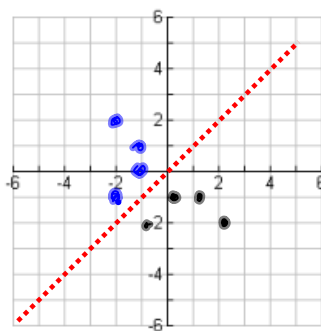
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Ex2a Graph s and its inverse.

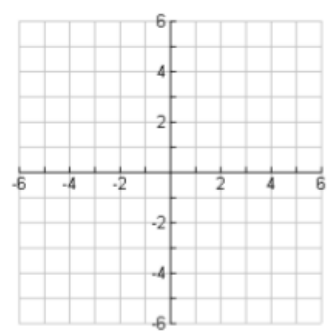
Relation s



Reversing the Ordered Pairs



Inverse of s



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Ex 3a. Find the inverse: $y = x^2 - 3$

- ① Find f^{-1}
- ② Graph f and f^{-1}
- ③ Find Domain / Range

① $x = y^2 - 3$ $x + 3 = y^2$ $y = \pm\sqrt{x+3}$
 $f(x)$ $f^{-1}(x)$ $f^{-1}(x) = \pm\sqrt{x+3}$

x	y
0	-3
-1	-2
1	-2

x	x
-3	0
-2	-1
-2	1

D: $[-3, \infty)$
R: $(-\infty, \infty)$

D: $(-\infty, \infty)$
R: $[-3, \infty)$

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- 1.
- 2.
- 3.
4. Graph f & f^{-1}

$y = (-x)^2$

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HW

Worksheet - 1-4!!

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