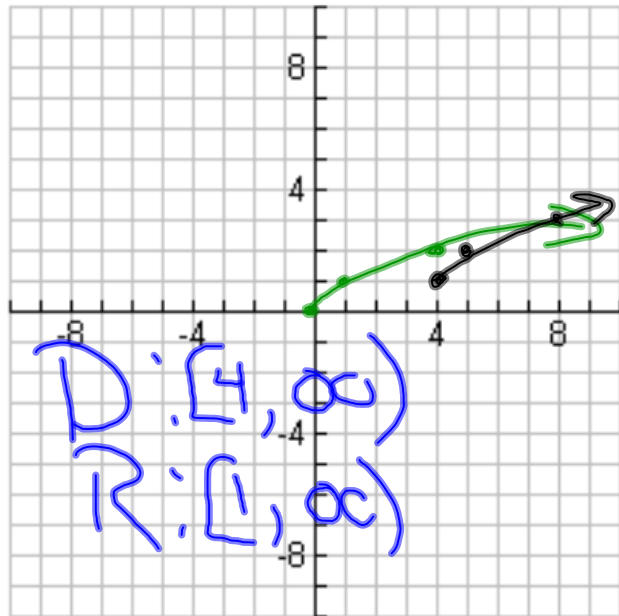


1.  $y = \sqrt{x-4} + 1$   $h=4$   $k=1$

P:  $y = \sqrt{x}$

x	y
0	0
1	1
4	2

x	y
4	1
5	2
8	3



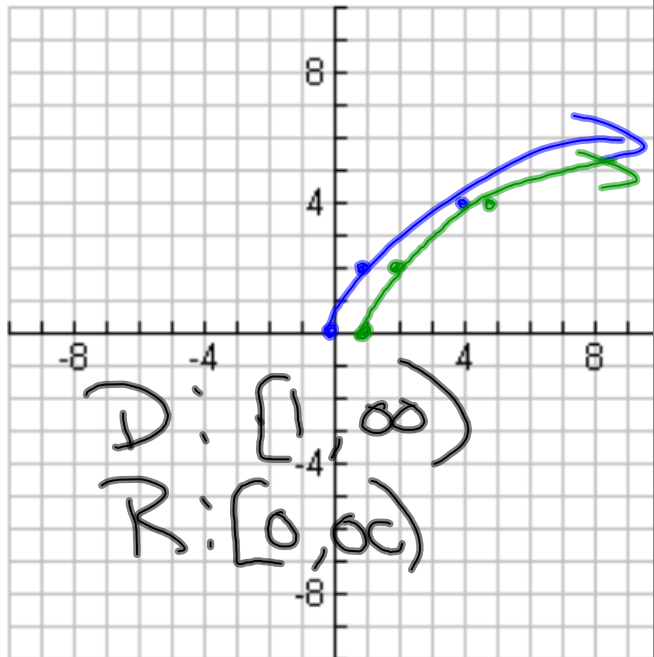
Mar 8-2:36 PM

5.  $y = 2\sqrt{x-1}$

P:  $y = 2\sqrt{x}$

x	y
0	0
1	2
4	4

Translation:  
Stretch of 2  
Right 1 (h)  
k=0

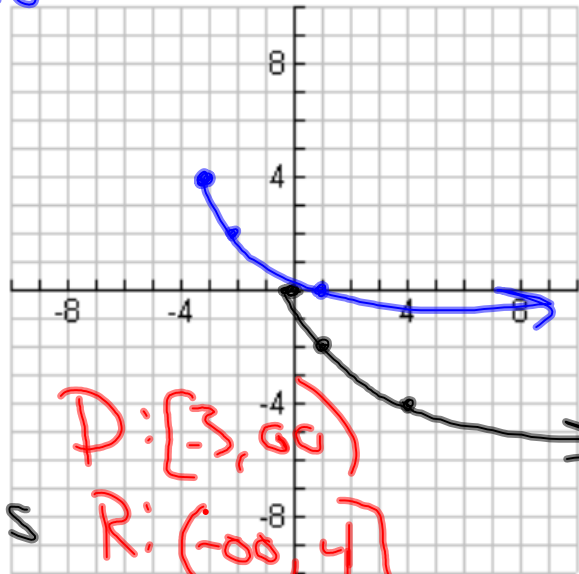


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⑥  $y = -2\sqrt{x+3} + 4$   
 $\hookrightarrow x+3=0$        $\kappa$

P:  $y = -2\sqrt{x}$

x	y
0	0
1	-2
4	-4



Translation:  
 Reflects over x-axis  
 stretch 2  
 Left + 3  
 up 4

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Ex 3

$y = -2\sqrt{x+1} - 3$

① Graph parent first, which is the "a" term and the basic root:

$y = -2\sqrt{x}$

② Then graph the translations!

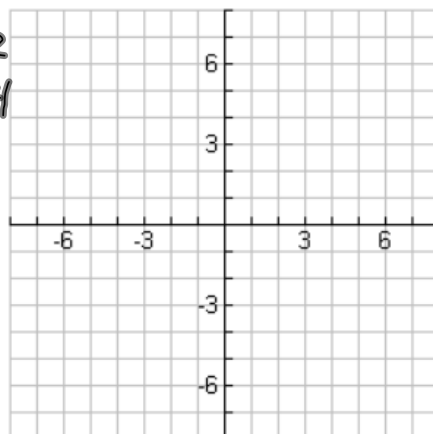
x	y
0	0
1	-2
4	-4

Reflect over x-axis

stretch 2

H: Left + 1

V: Down 3



Apr 1-7:53 AM

P<sub>5</sub> 417  
9-17  
NOT 14  
31-36

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