

March 9, 2015

$$f(x) = \sqrt{x-h} \leftarrow \text{Horizontal shift}$$

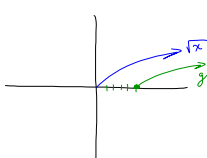
① If $h > 0$, then \sqrt{x} shifts h units to the right

② If $h < 0$, \sqrt{x} shifts h units to the left.

Mar 9-9:48 AM

$$g(x) = \sqrt{x-5}$$

$h = +5$



* Domain:
 $x-5 \geq 0$ *always set ≥ 0*
 $x \geq +5$
 $[5, \infty)$

Mar 9-10:02 AM

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

Domain: $[0, \infty)$

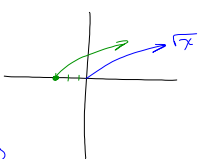
$$f(x) = \sqrt{x-0}$$

* We cannot have a negative radicand.

Mar 9-10:04 AM

$$h(x) = \sqrt{x+3}$$

$h = -3!$

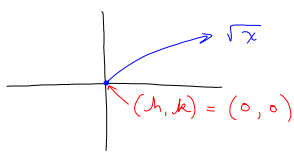


Domain: $x+3 \geq 0$
 $x \geq -3$
 $[-3, \infty)$

Mar 9-10:08 AM

$$f(x) = \sqrt{x-h} + k$$

Domain: $[h, \infty)$



$(h, k) = (0, 0)$

Mar 9-10:10 AM

$$f(x) = \sqrt{x-2} - 4$$

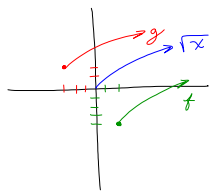
$h = 2 \neq k = -4$

D: $[2, \infty)$

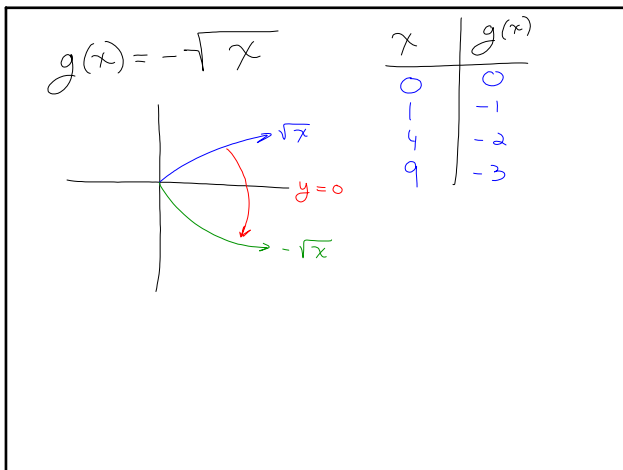
$$g(x) = \sqrt{x+3} + 2$$

$h = -3 \neq k = 2$

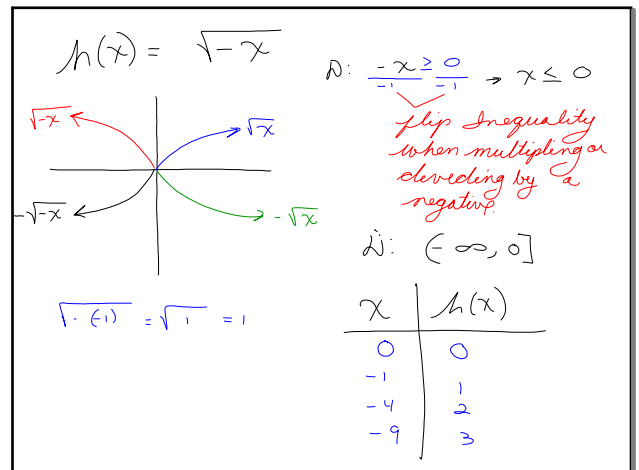
D: $[-3, \infty)$



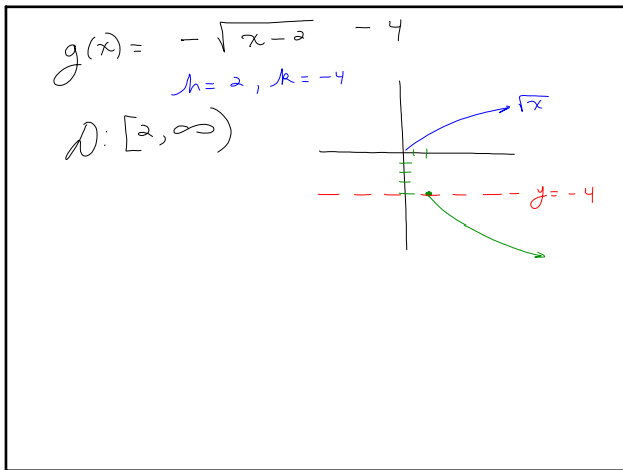
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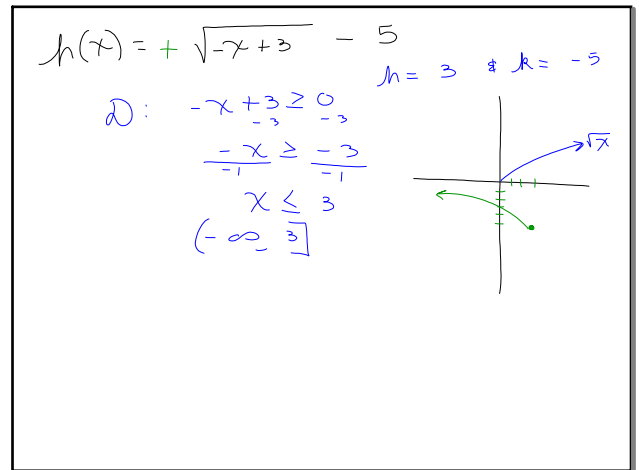
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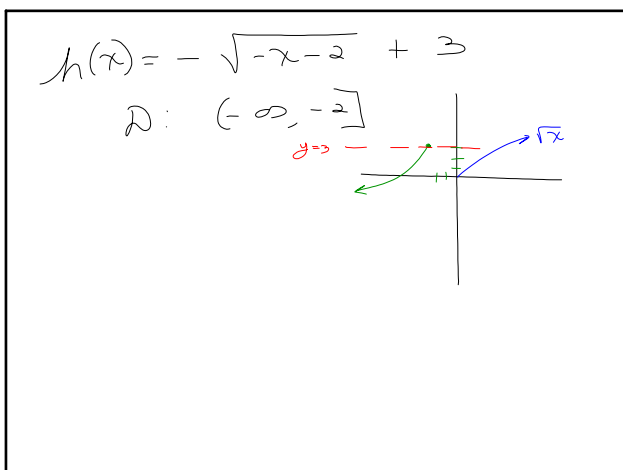
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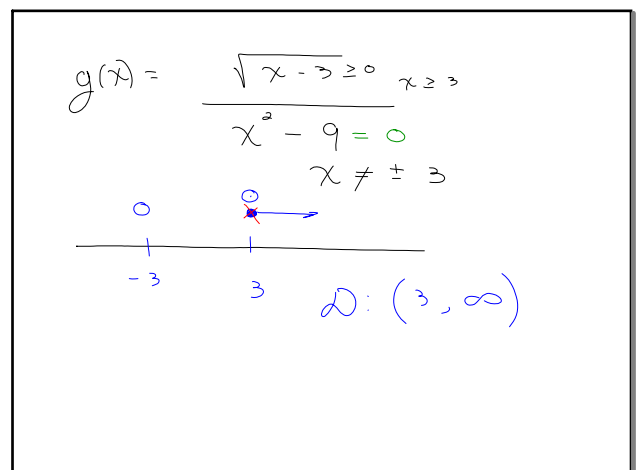
Mar 9-10:23 AM



Mar 9-10:28 AM



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Mar 9-10:41 AM

Do 9.1 COR

Mar 9-10:46 AM