

7.1

Domains

$$f(x) = \frac{3}{x-7}$$

$$x-7 \neq 0$$

$$x > 7$$

$$x \geq 7$$

$$f(x) = \frac{3}{x-7} \quad x-7 \neq 0$$

D: IR except 7

$$f(x) = \sqrt{3x-2}$$

$$3x-2 \geq 0$$

$$3x \geq 2$$

$$x \geq \frac{2}{3}$$

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

$$3x+2 \geq 0$$

$$3x \geq -2$$

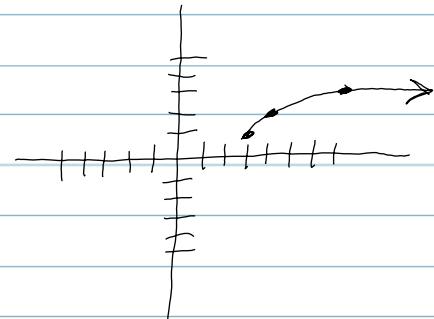
$$x \geq -\frac{2}{3}$$

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

Shape: up  
 $h, k$ :  $(3, 1)$   
 $a = 1$   
 neutral

+ x right

x	y
-2	
3	1
4	2
7	3



D:  $[3, \infty)$   
 R:  $[1, \infty)$