

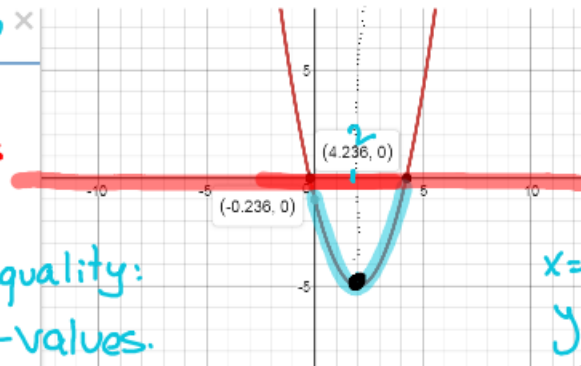
#17

$$x^2 - 4x - 1 < 0$$

below x-axis

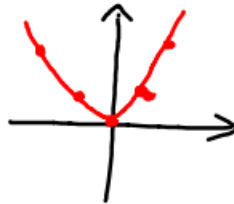
Negative y-values

Solution of inequality:
interval of x-values.
(-0.24, 4.24)



x = 2
y = -5
output.
negative y

$y = x^2$	
Input	output
-2	4
-1	1
0	0
1	1
2	4



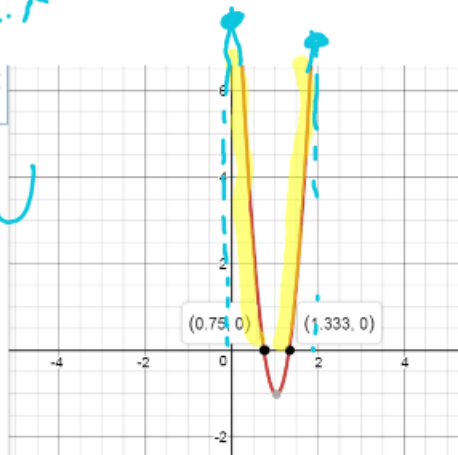
8

$$12x^2 - 25x + 12$$

$$\geq 0$$

Above x-axis

$$(-\infty, 0.75] \cup [1.33, \infty)$$



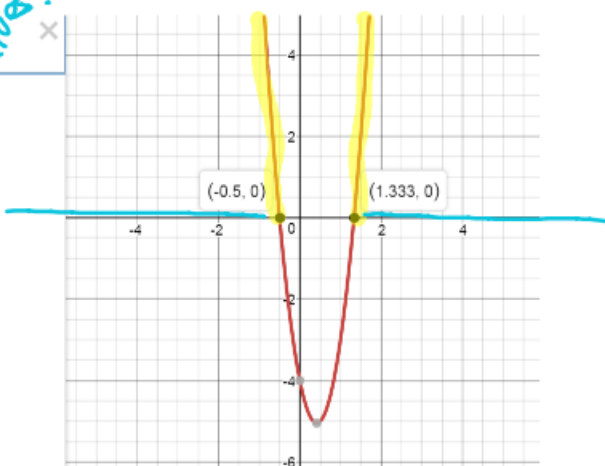
19

$$6x^2 - 5x - 4$$

$$> 0$$

Above x-axis

$$(-\infty, -\frac{1}{2}) \cup (1.33, \infty)$$



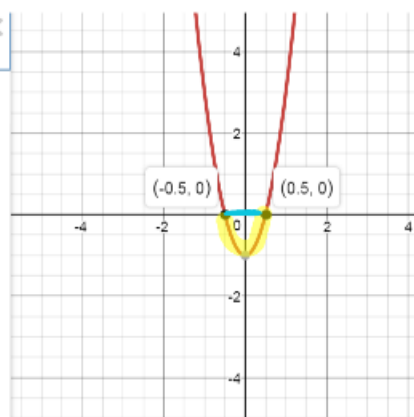
#20

$$4x^2 - 1 \leq 0$$

Below x-axis
⊖ y values

$$(-\infty, -\frac{1}{2}]$$

$$[\frac{1}{2}, \infty)$$

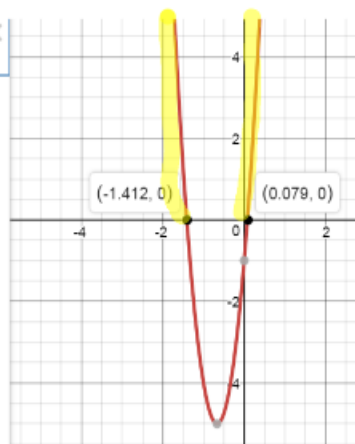


#21

$$9x^2 + 12x - 1 \geq 0$$

$$(-\infty, -1.412]$$

$$[0.079, \infty)$$

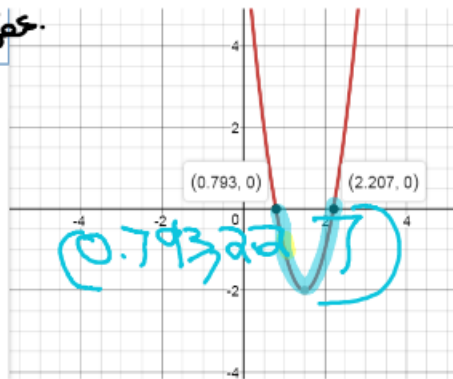


#22

$$4x^2 - 12x + 7 < 0$$

⊖ y-values

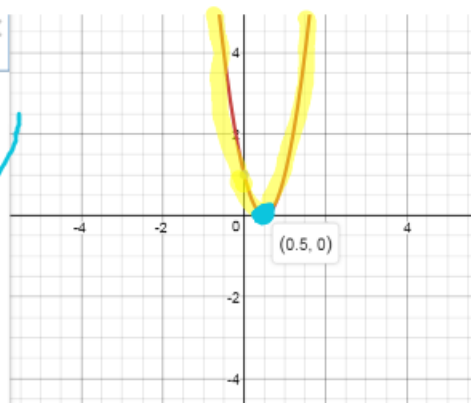
solution
(0.79, 2.20)



#23

$$4x^2 - 4x + 1 > 0$$

$(-\infty, 0.50)$ V
 $(0.50, \infty)$

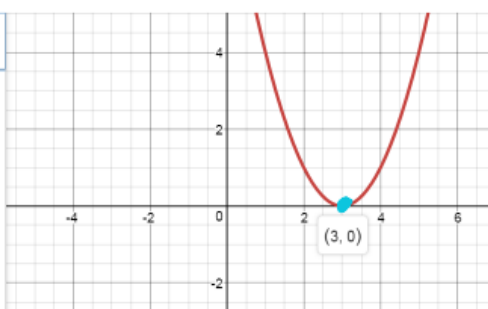


#24

$$x^2 - 6x + 9 \leq 0$$

Below

$$x = 3$$

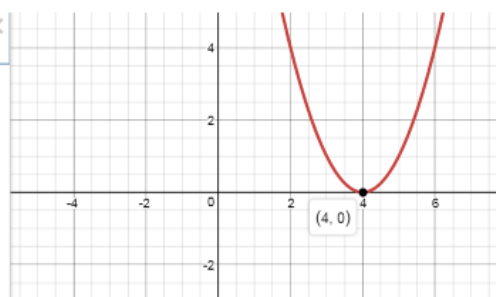


The parabola is never below the x axis, but it can equal to zero only for $x = 3$

#25

$$x^2 - 8x + 16 < 0$$

No sol.



There are no parts of the parabola that are below the x axis

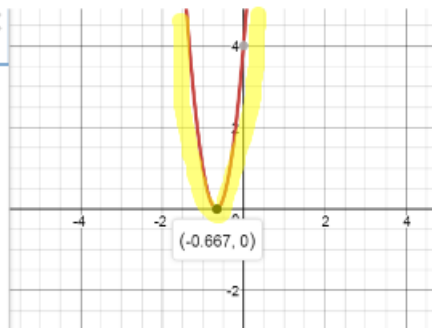
#26

$$9x^2 + 12x + 4$$

$$\geq 0$$

x

$(-\infty, \infty)$



The whole parabola is above the x axis