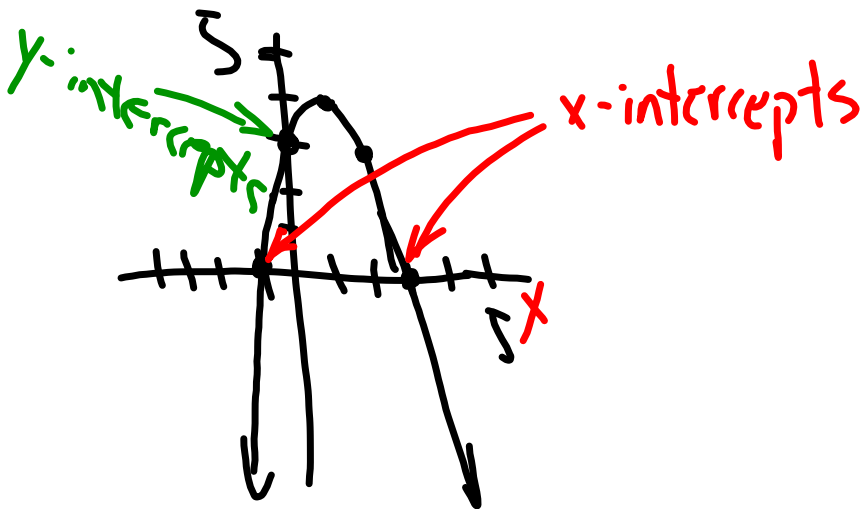
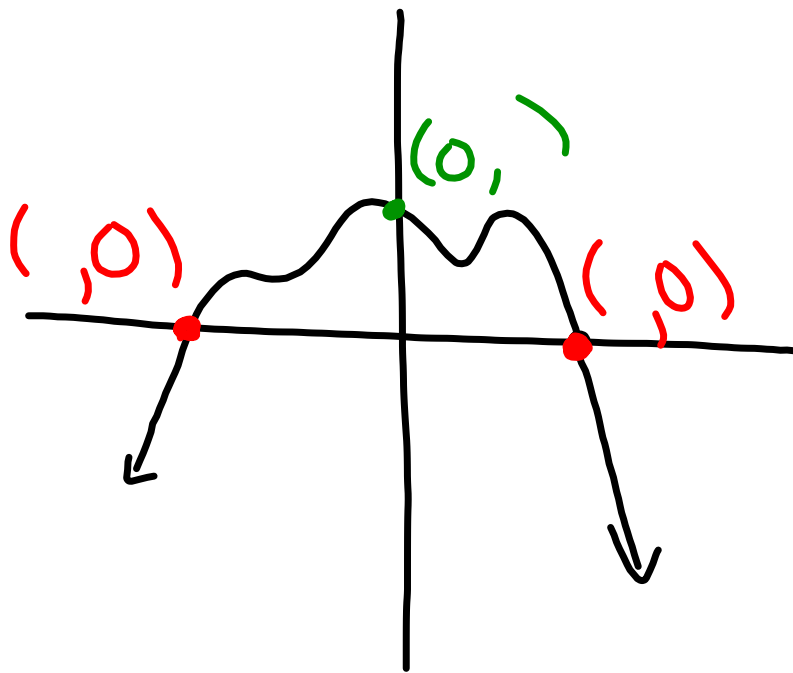


Graph  $y = (-x^2) + 2x + 3$

$y = -( )^2 + 2( ) + 3$

x	y
-1	
0	3
1	4
2	3
3	0
4	-1



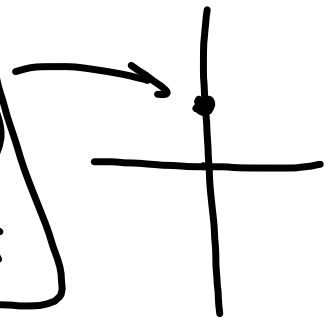


$$y = -x^2 + 2x + 3$$

Find the x- and y-intercepts

Let  $x=0$   
then  $y=3$

Get  $(0,3)$   
y-intercept



Let  $y=0$ :

$$x^2 - 2x - 3 = 0$$

$$0 = -x^2 + 2x + 3$$

$$0 = x^2 - 2x - 3$$

$$0 = (x+1)(x-3)$$

$$x = -1, 3$$

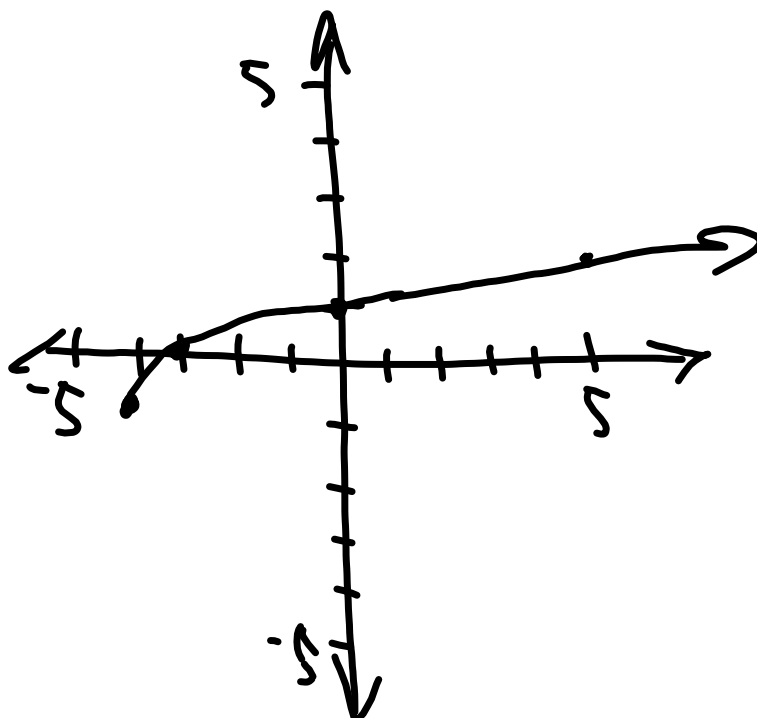
times -1  
both sides

$(-1,0), (3,0)$   
x-intercepts

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

half parabola

x	y
-5	DNE
-4	-1
-3	0
0	1
5	2



$$x-5 \rightarrow 5!$$

$$x+2 \rightarrow -2!$$

$$x-3 \rightarrow 3!$$

$$x+1 \rightarrow 1!$$

