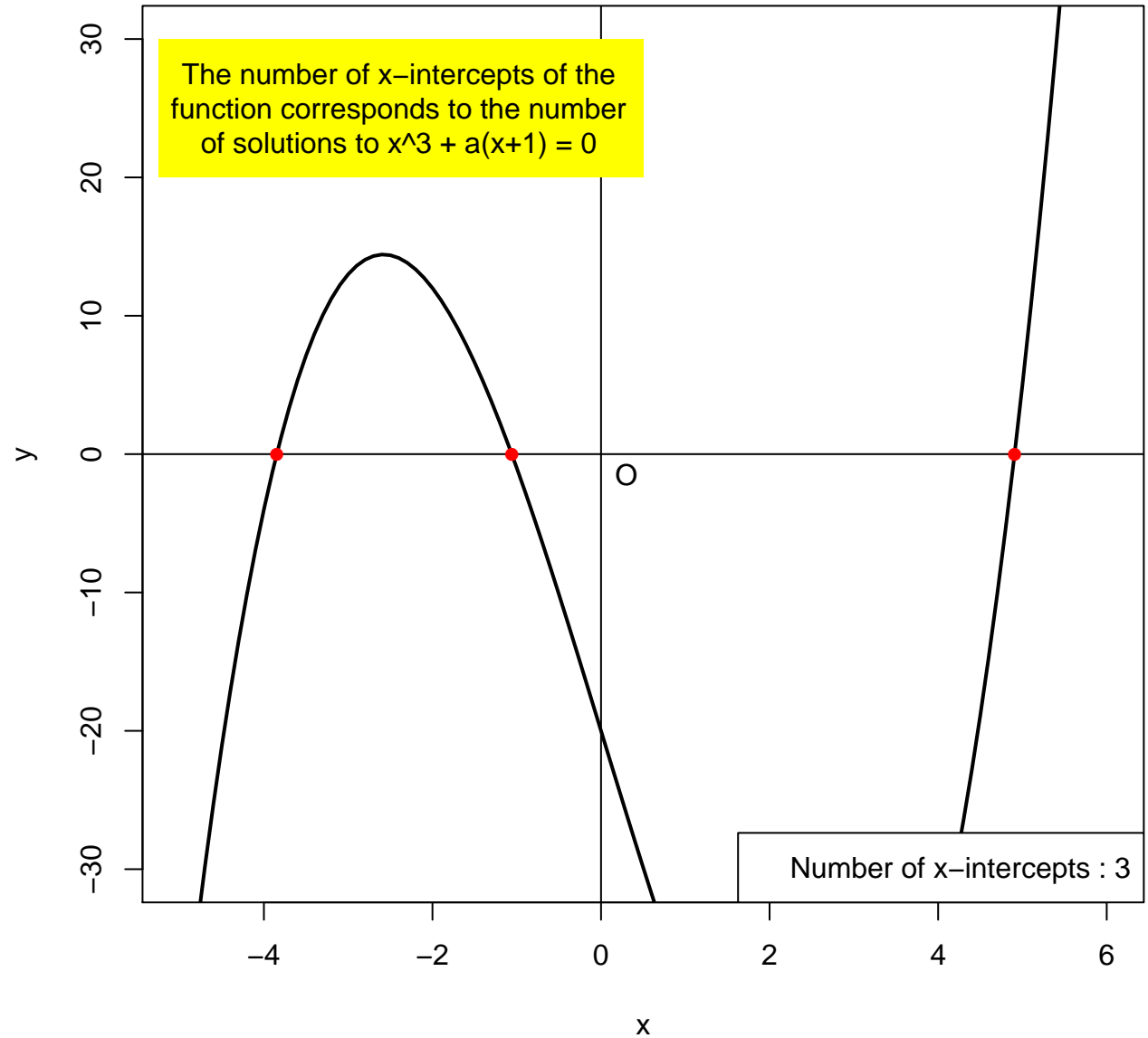


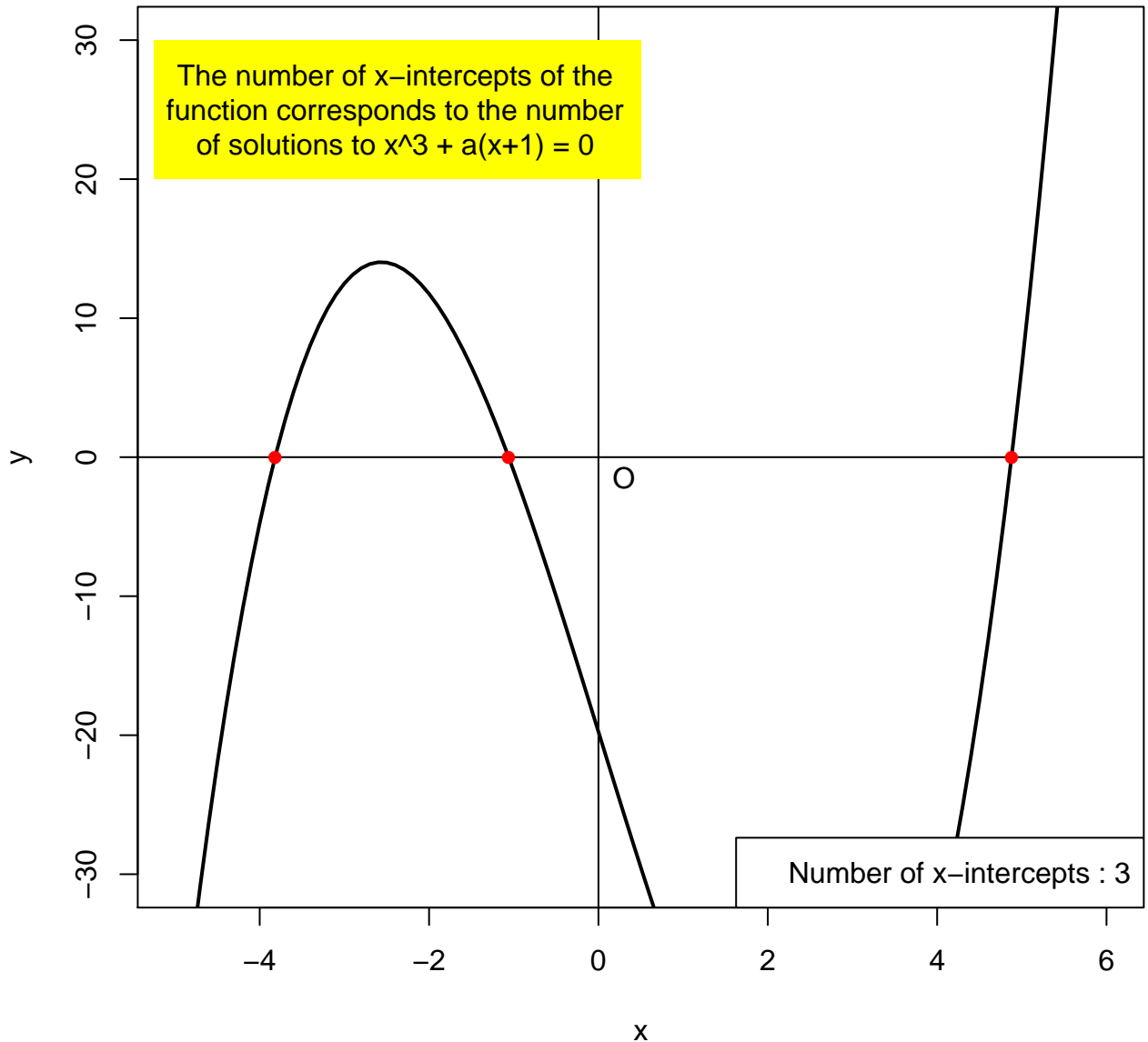
$$a = -20$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -19.75$$

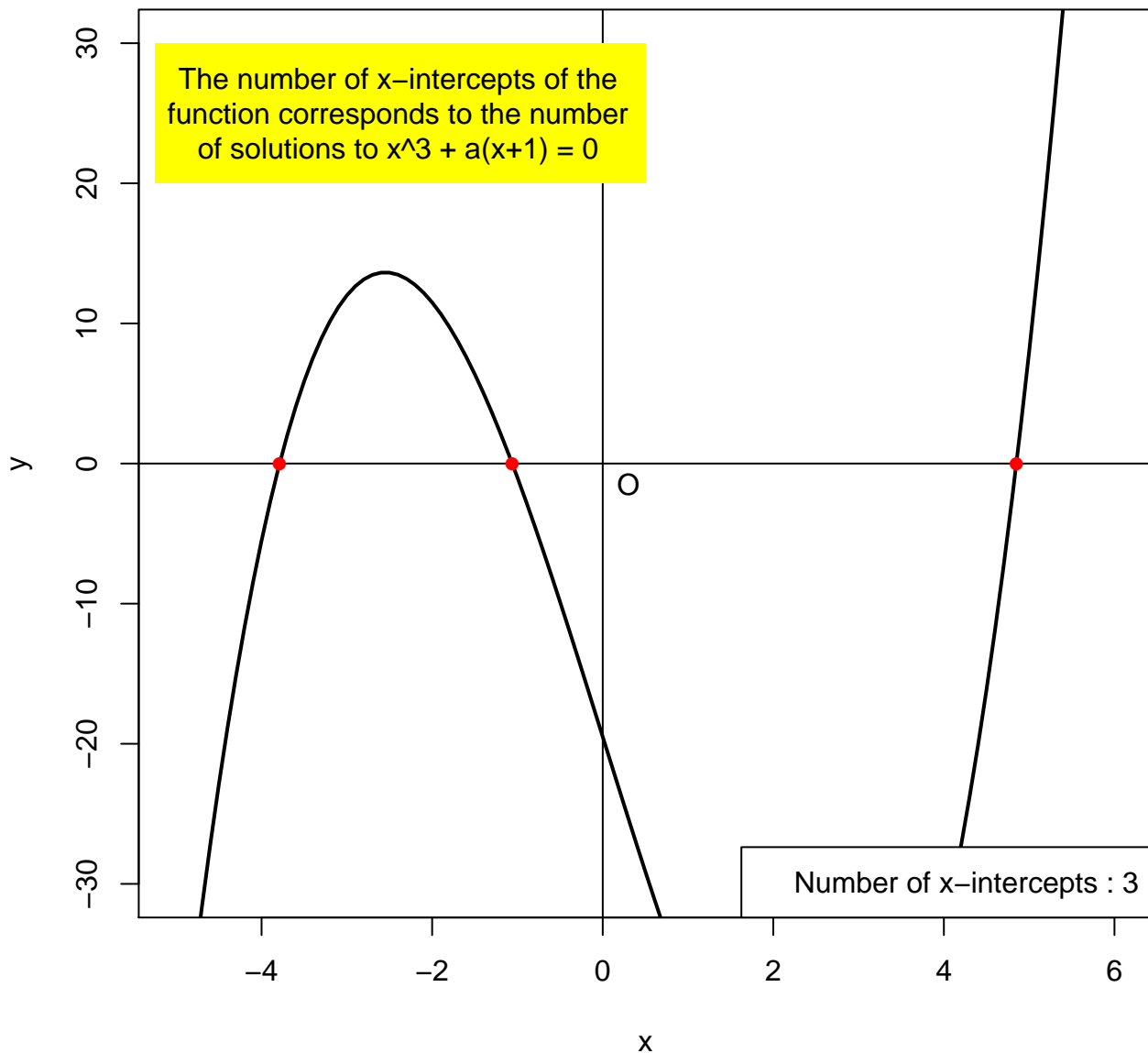
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

$$a = -19.5$$

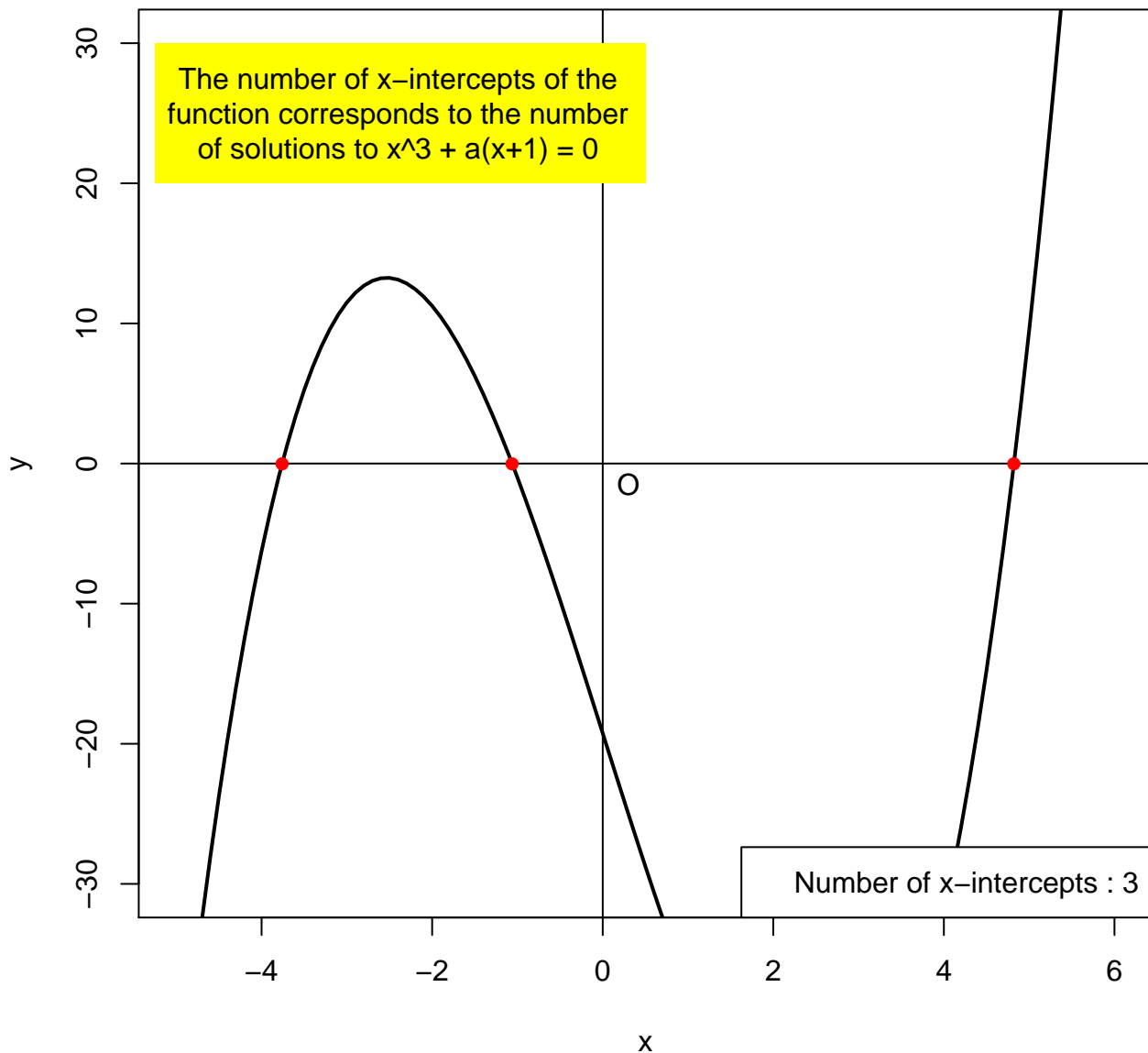
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

$$a = -19.25$$

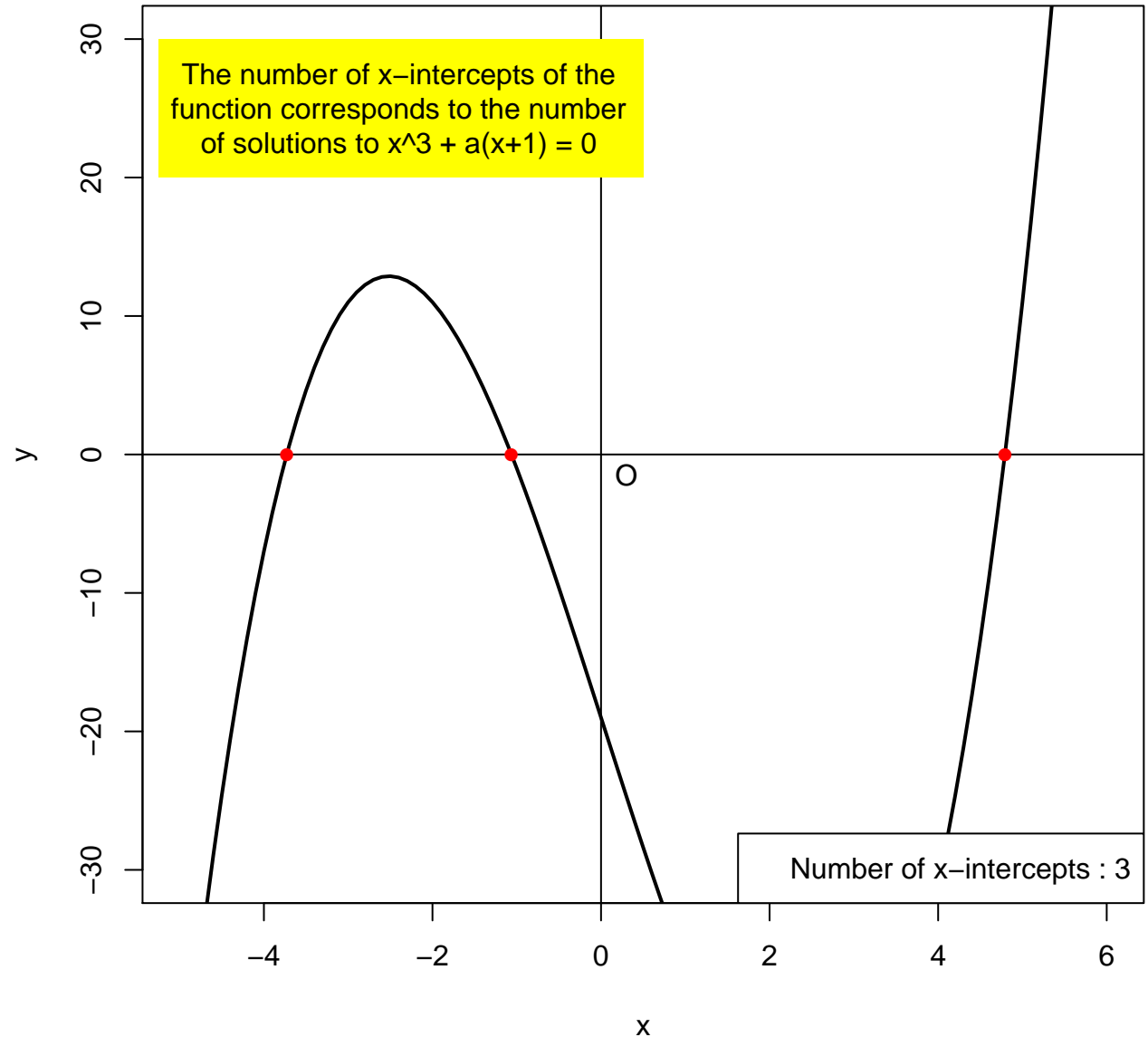
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

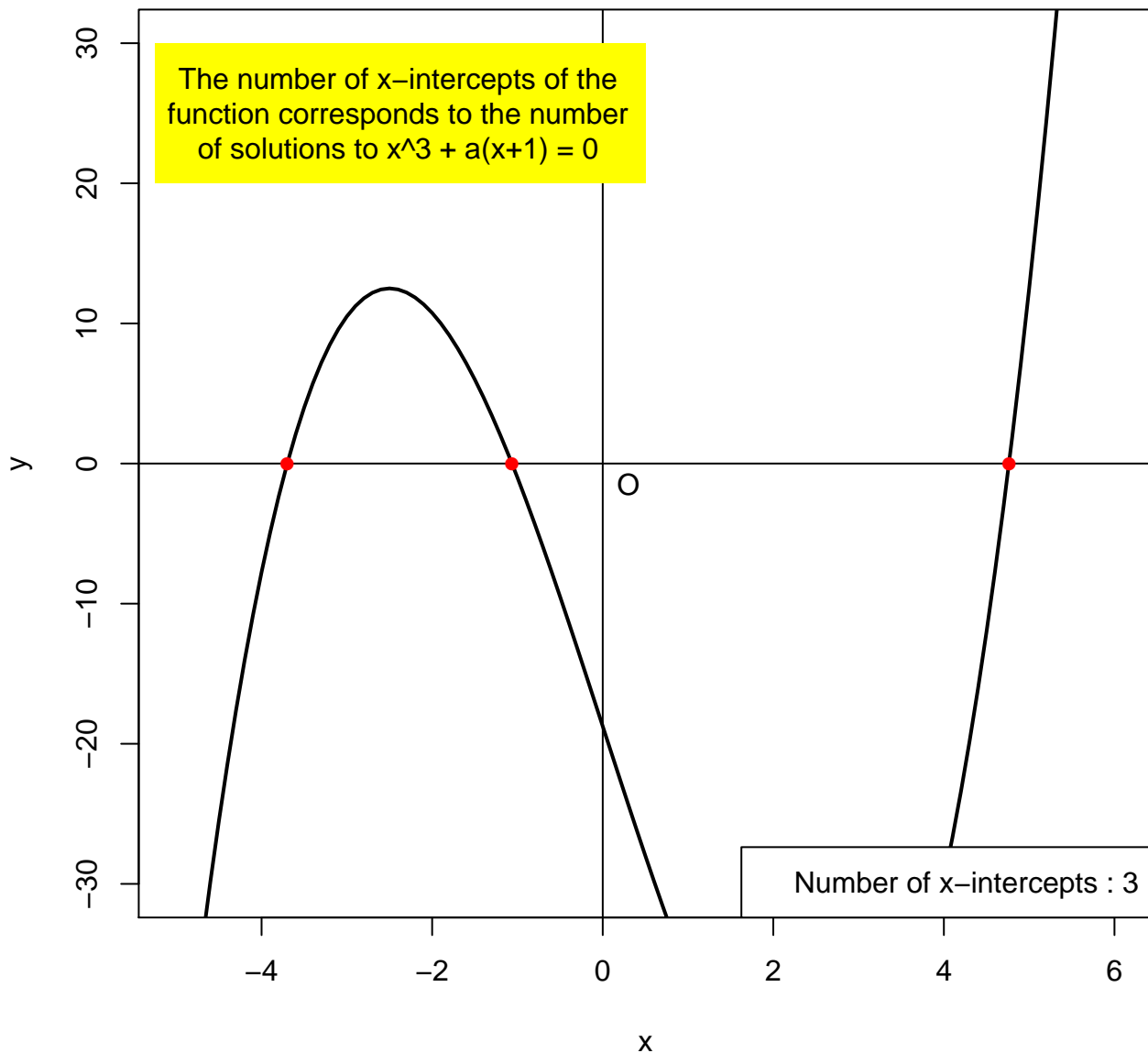
$$a = -19$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -18.75$$

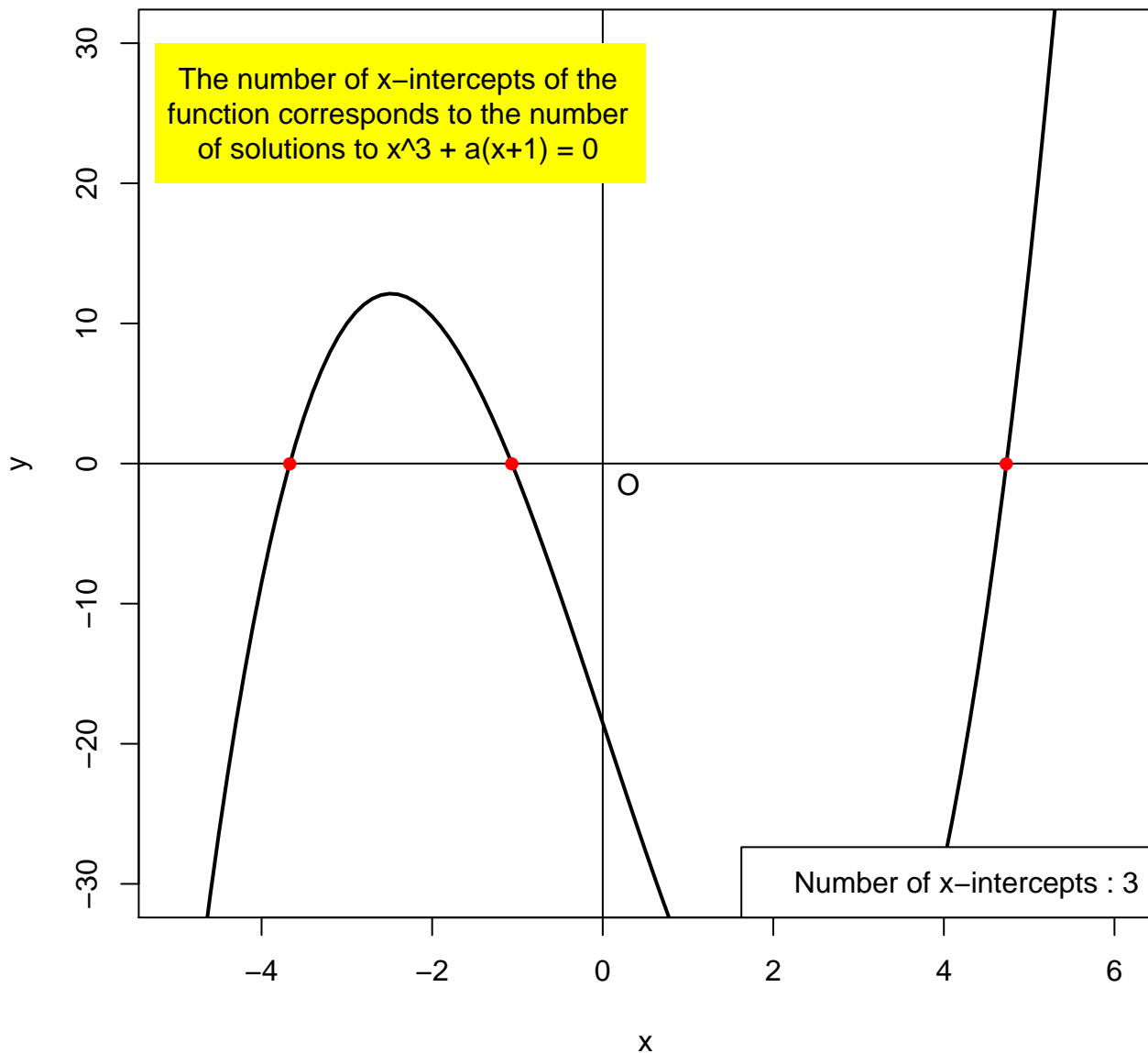
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

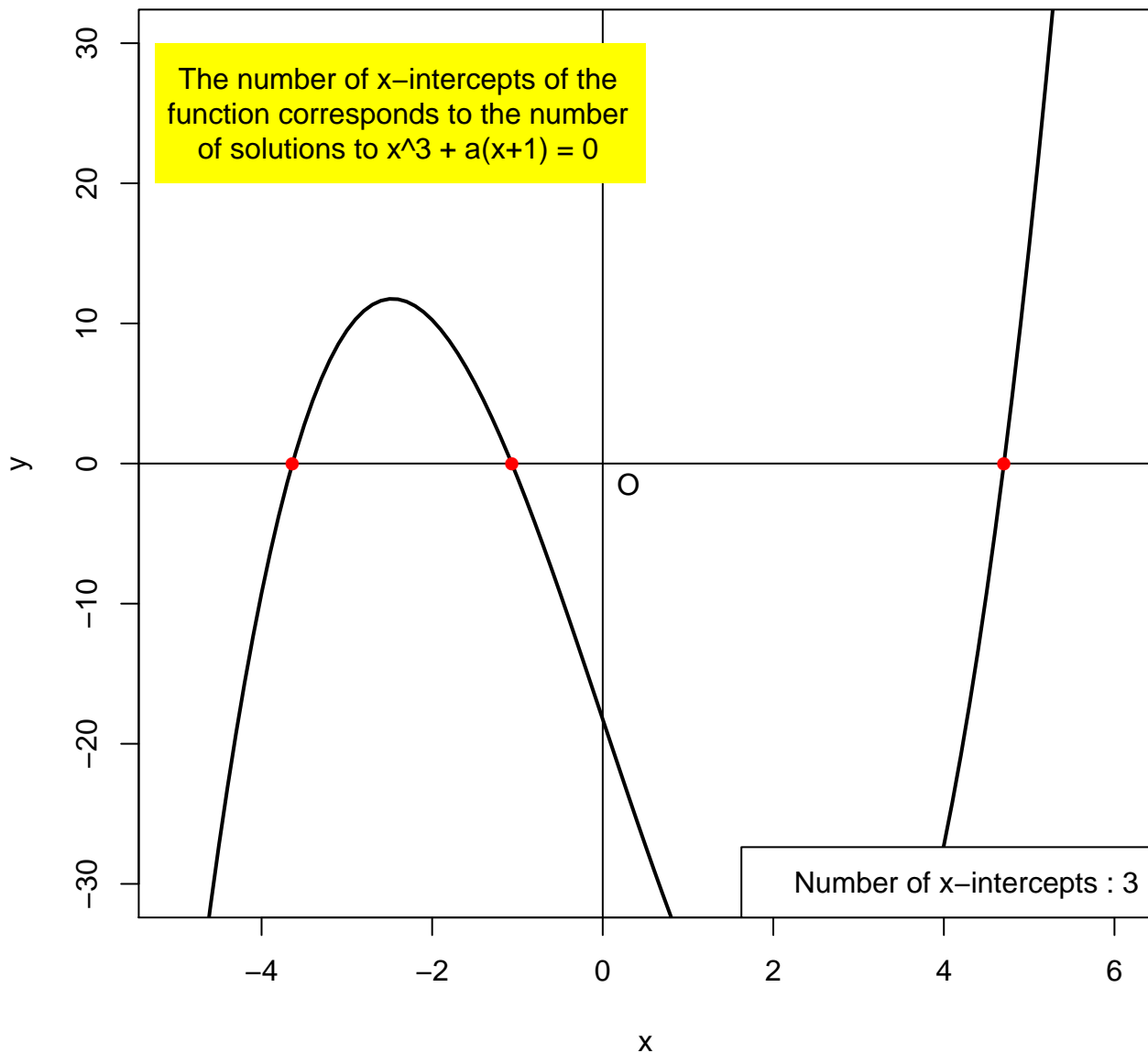
$$a = -18.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -18.25$$

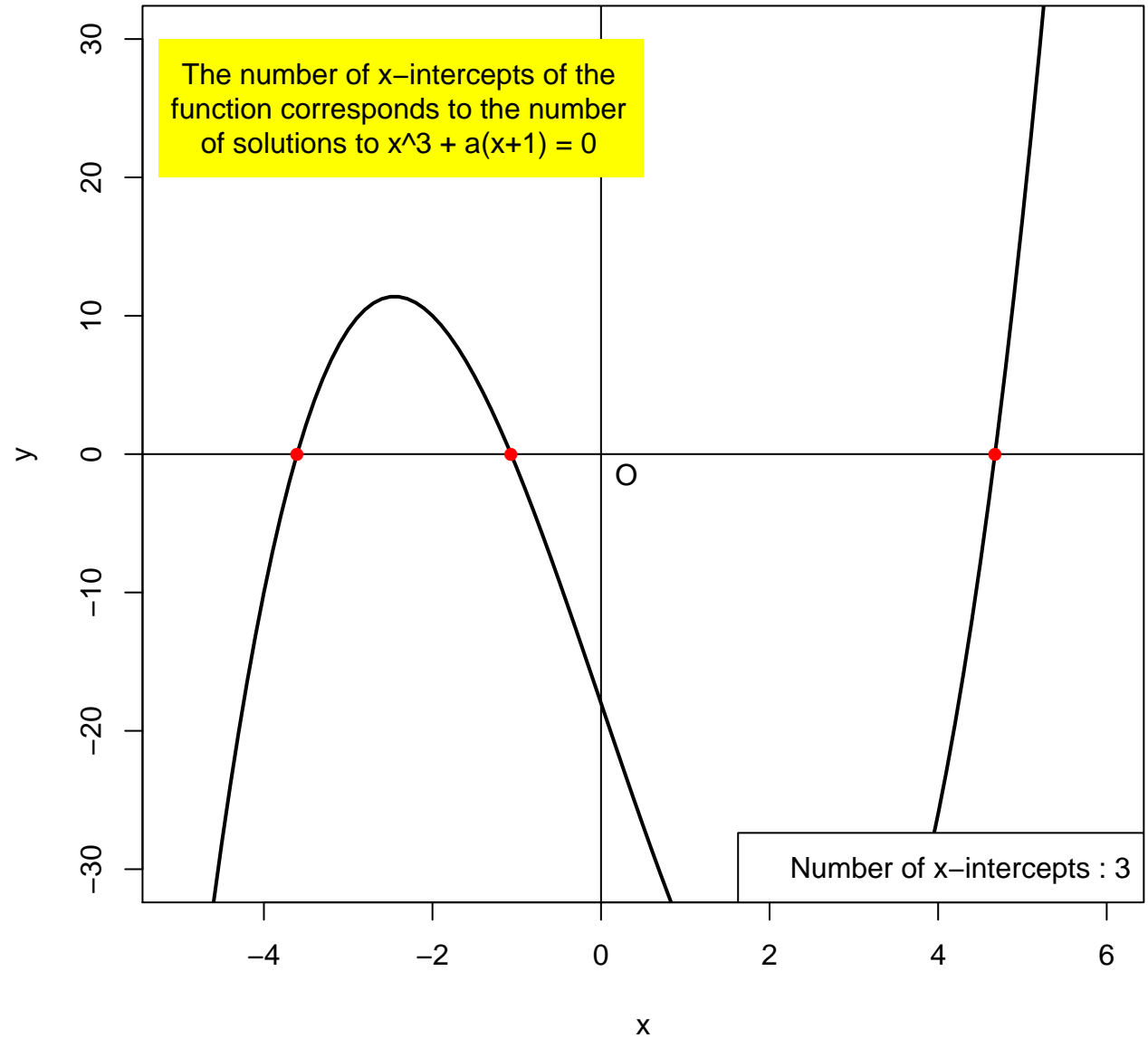
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





$$a = -18$$

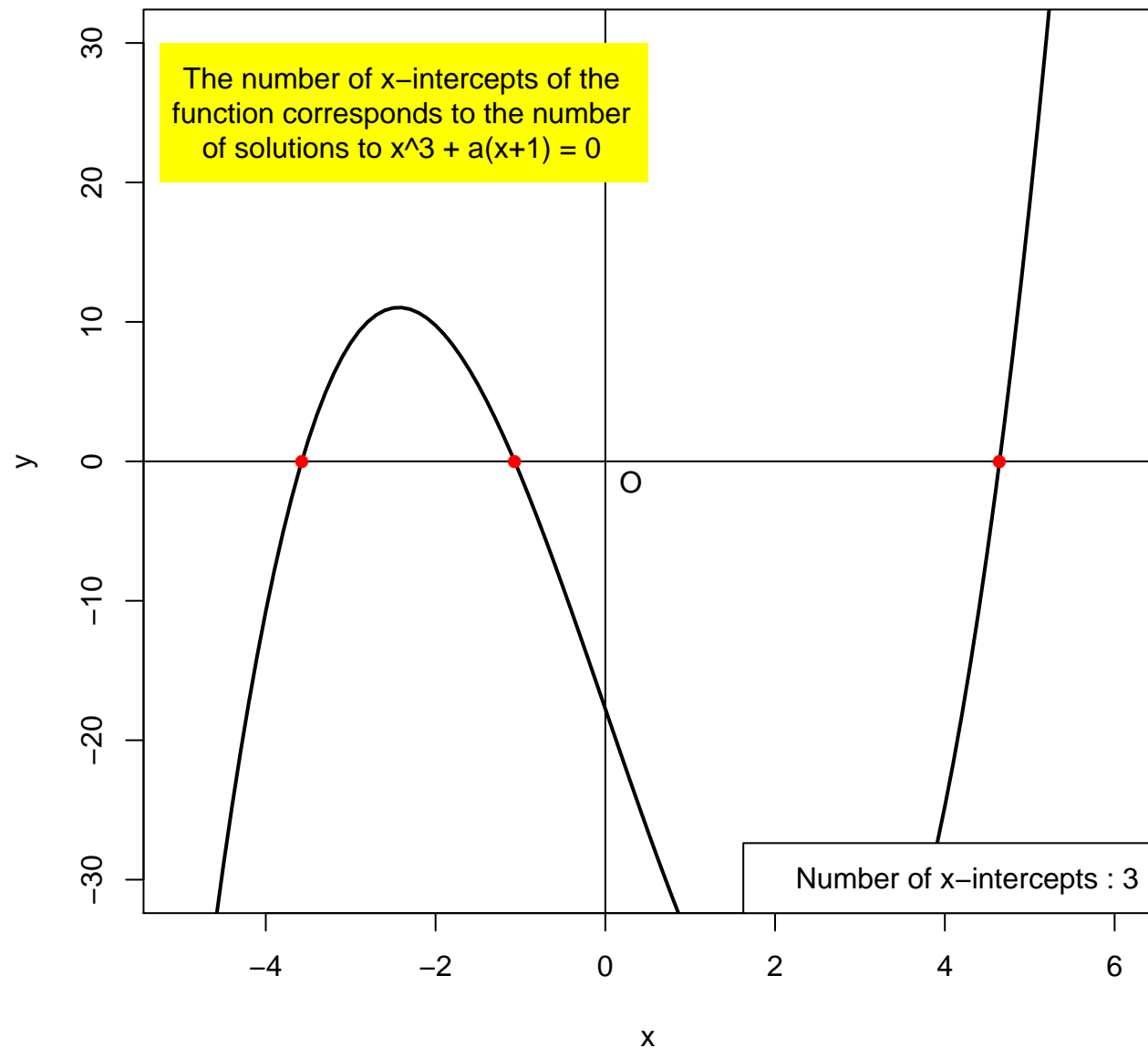
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

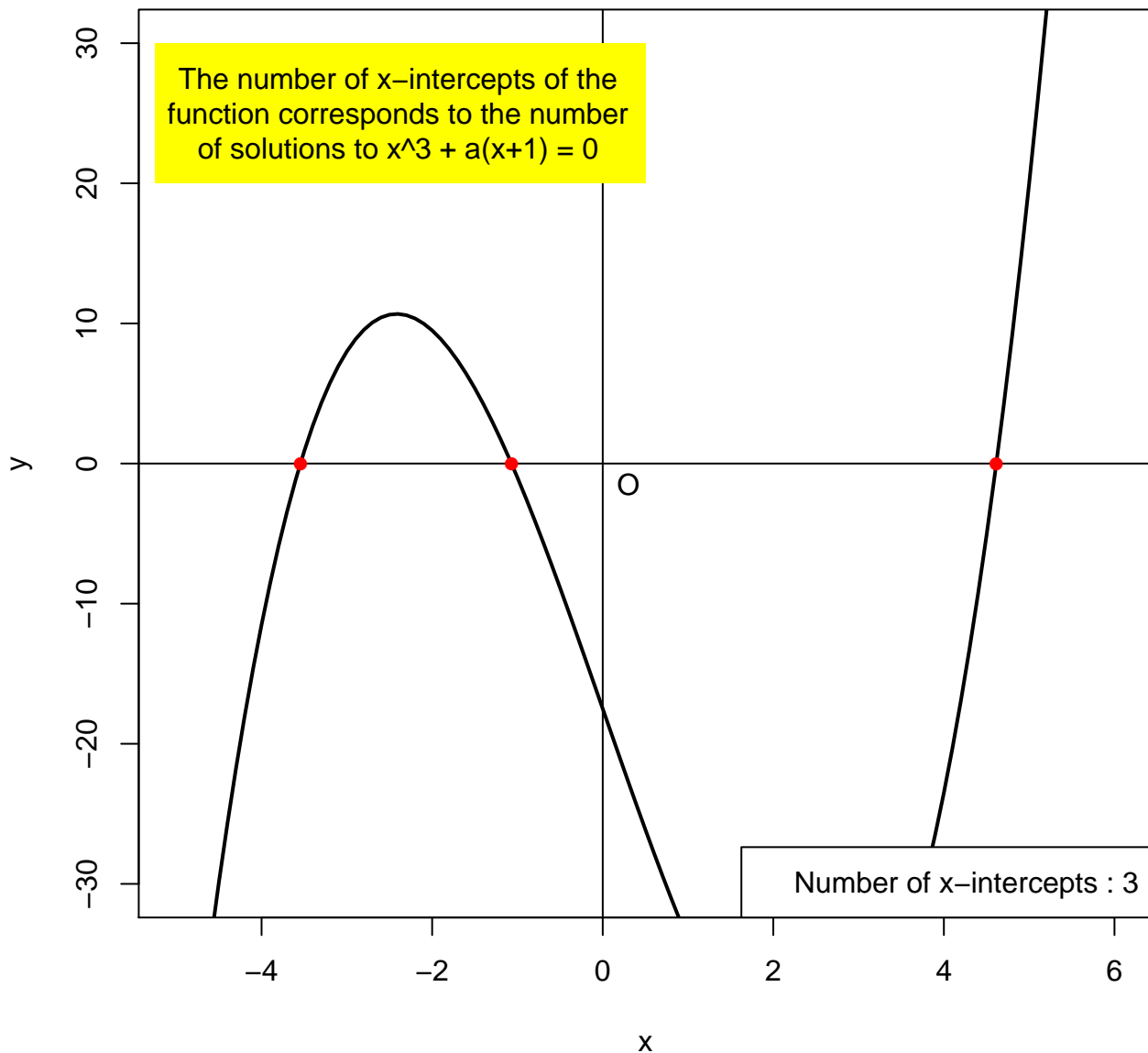
$$a = -17.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



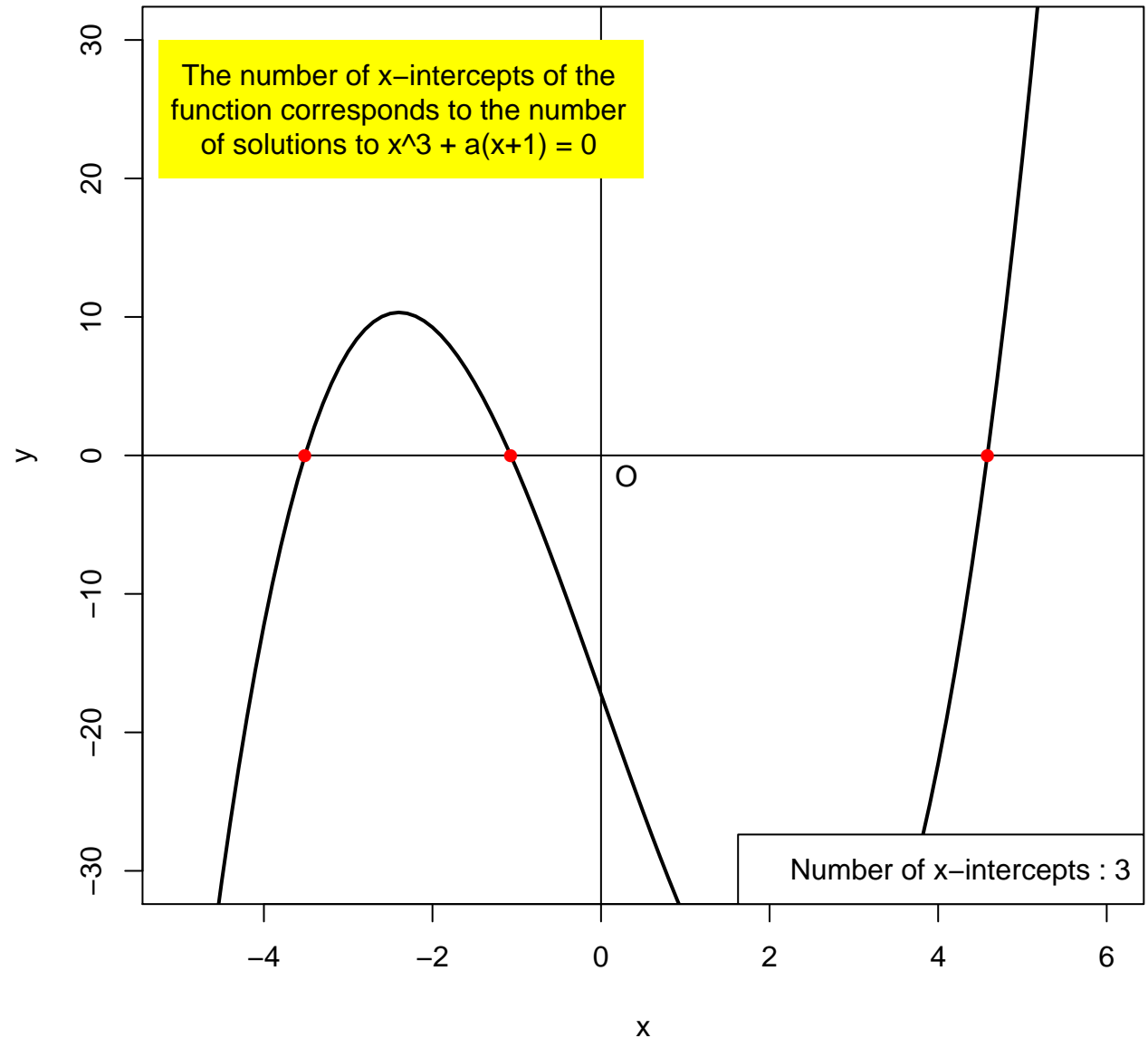
$$a = -17.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



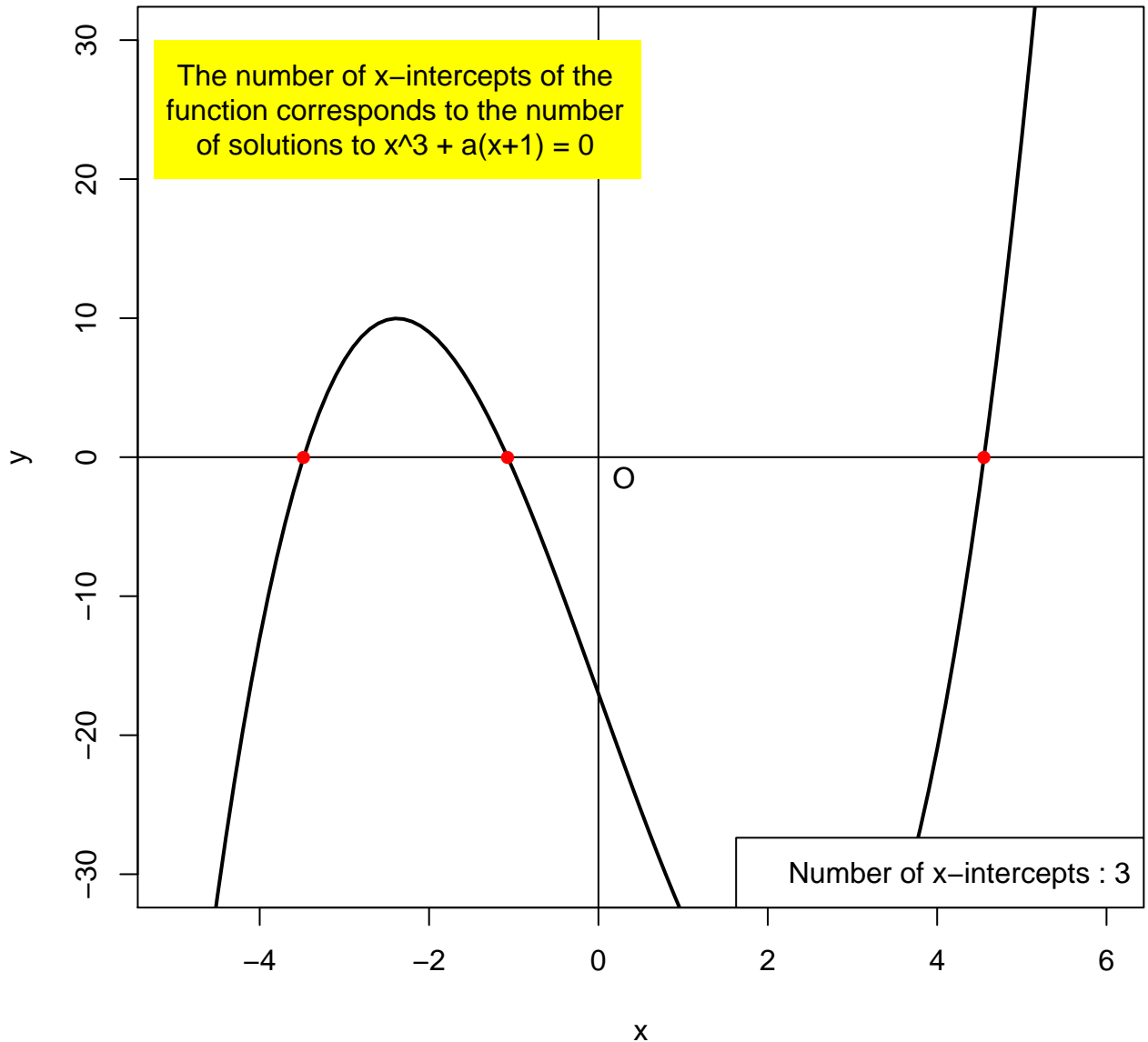
$$a = -17.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



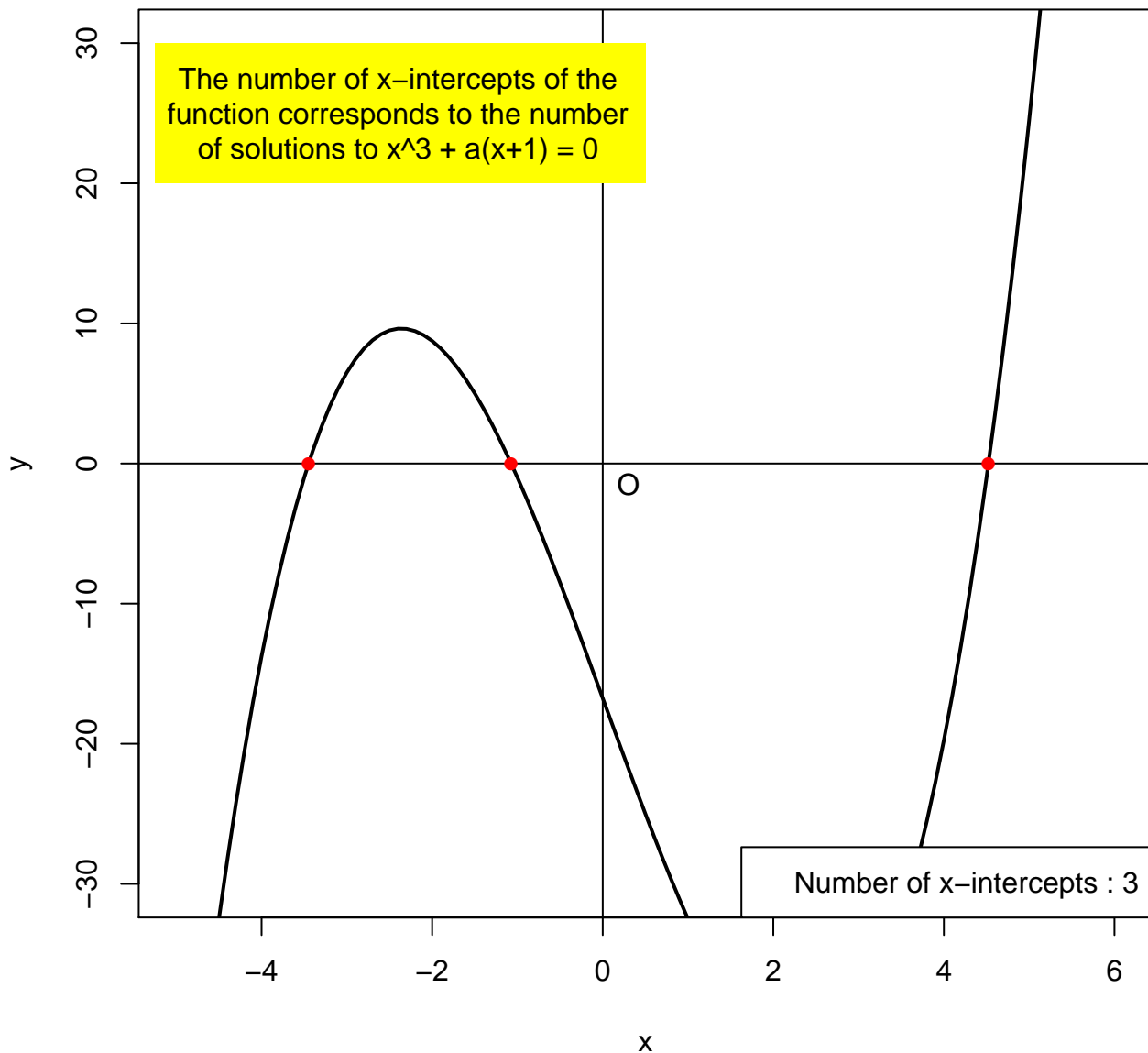
$$a = -17$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



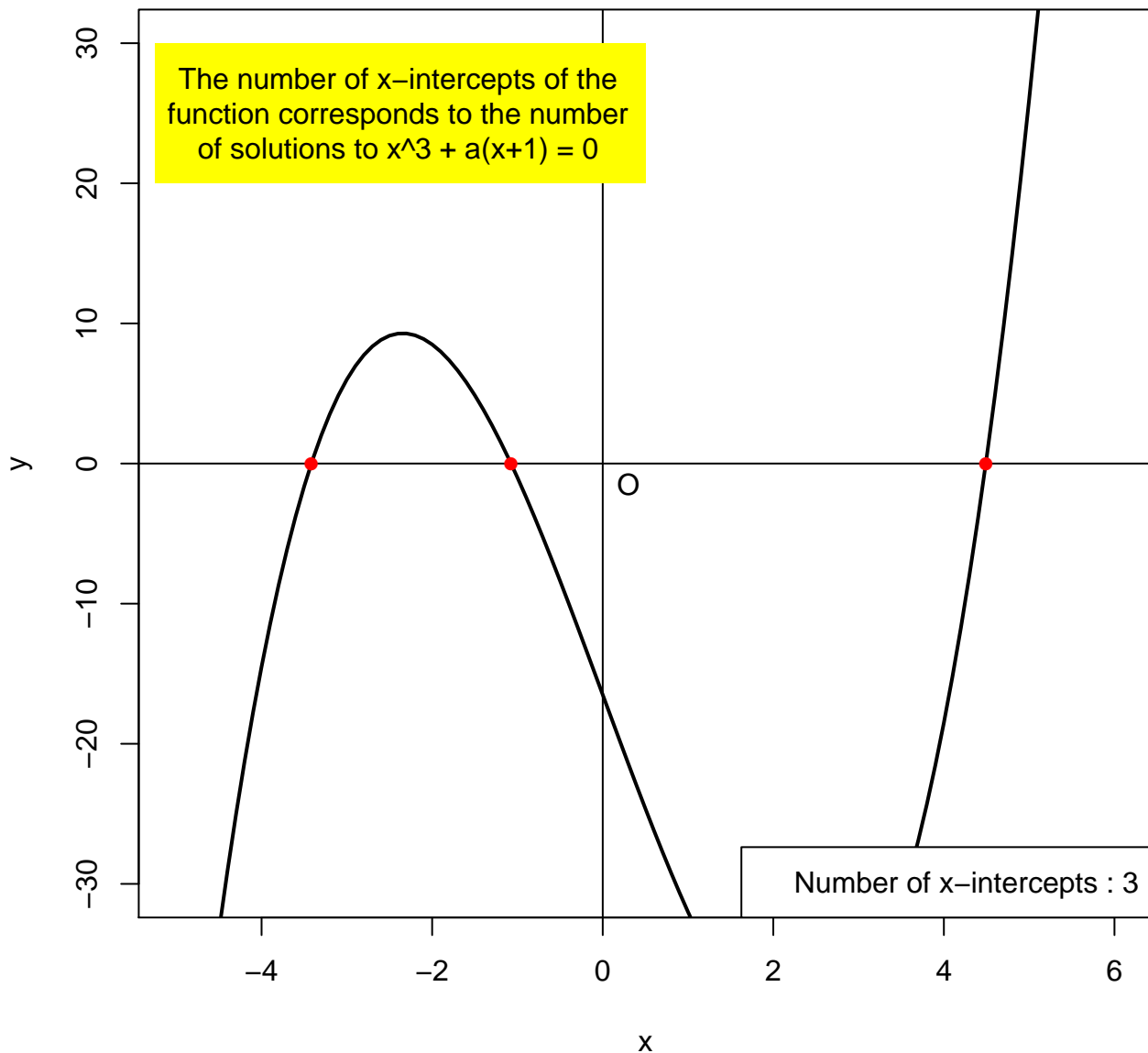
$$a = -16.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



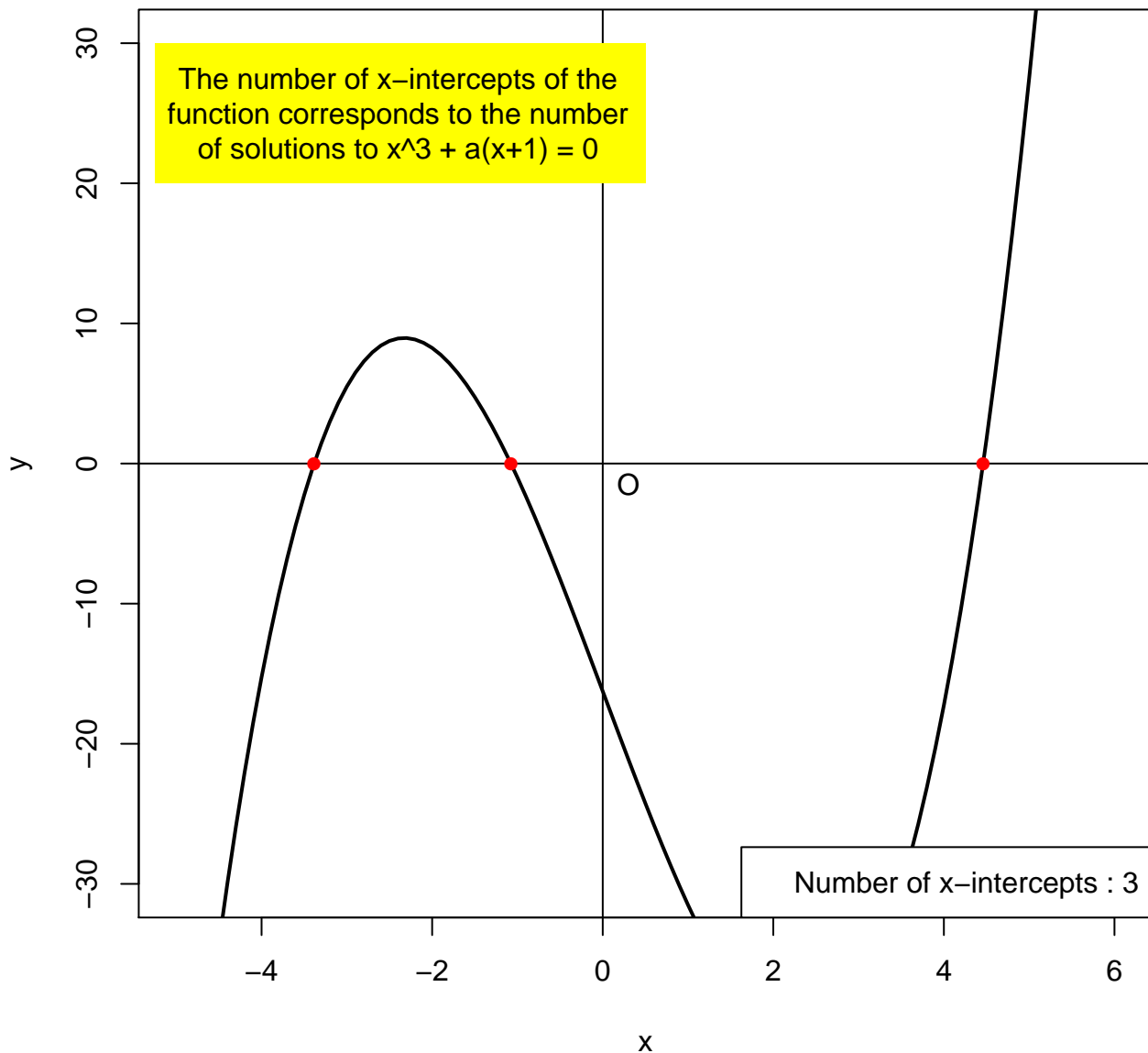
$$a = -16.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -16.25$$

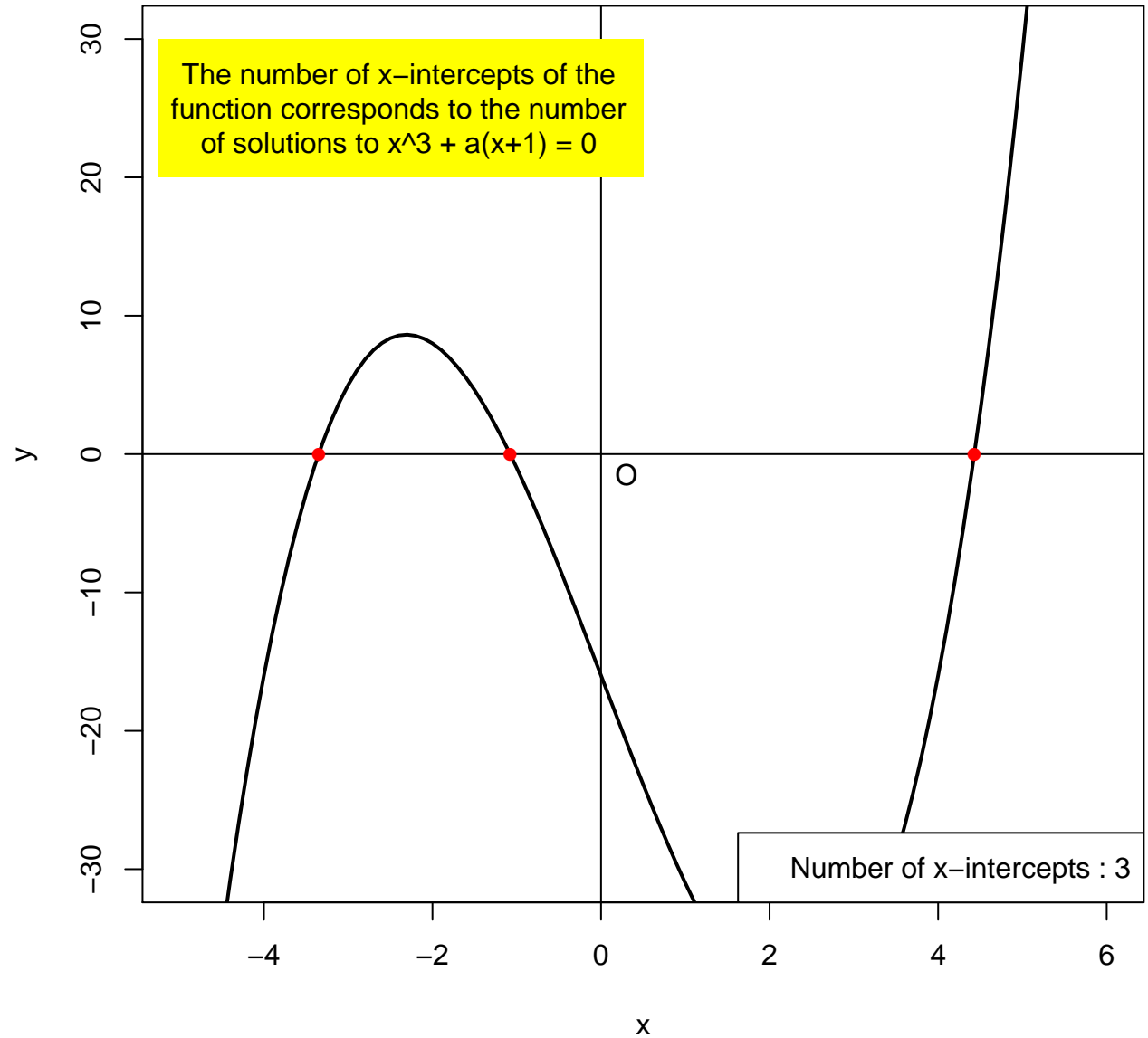
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





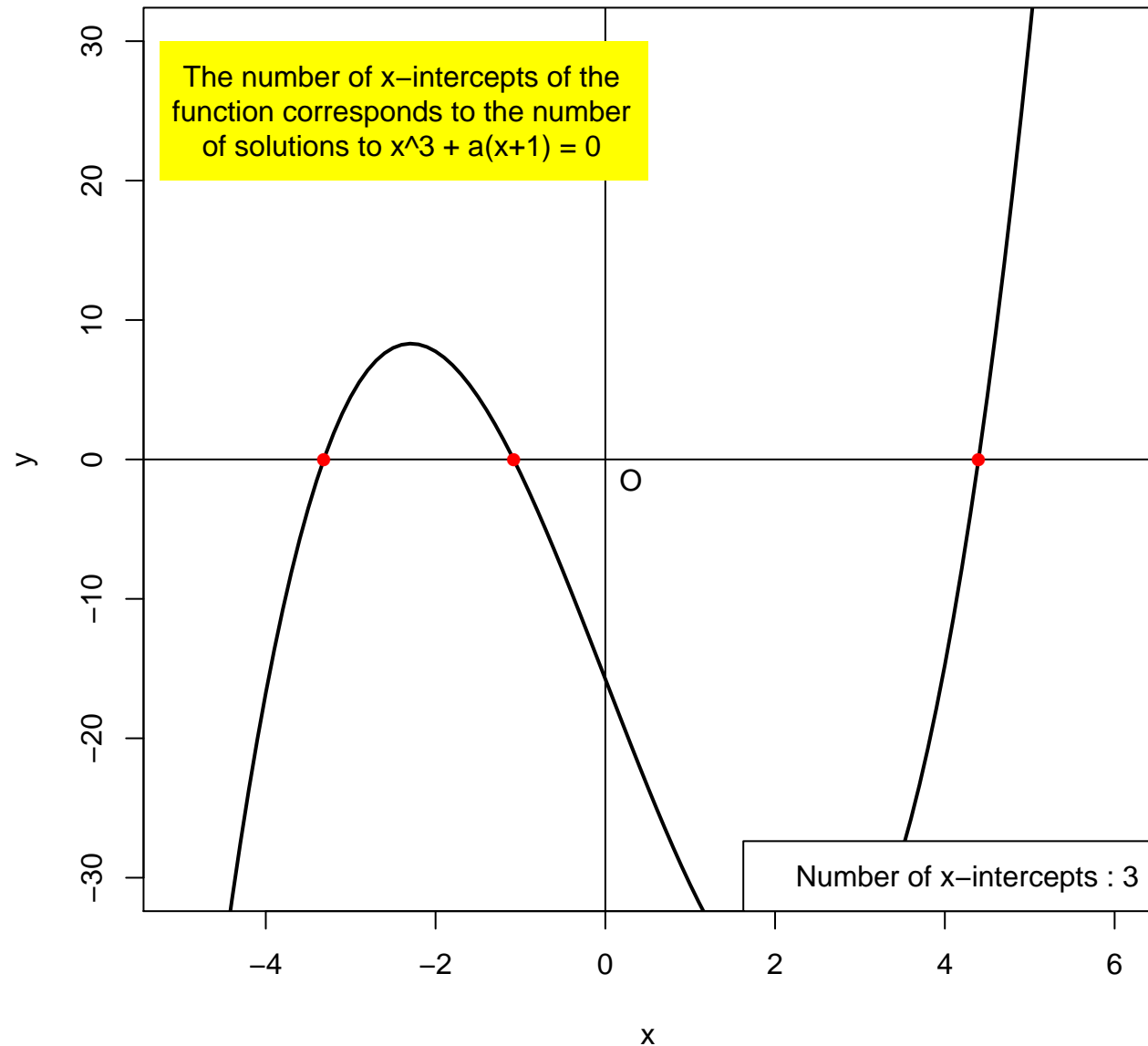
$$a = -16$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -15.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

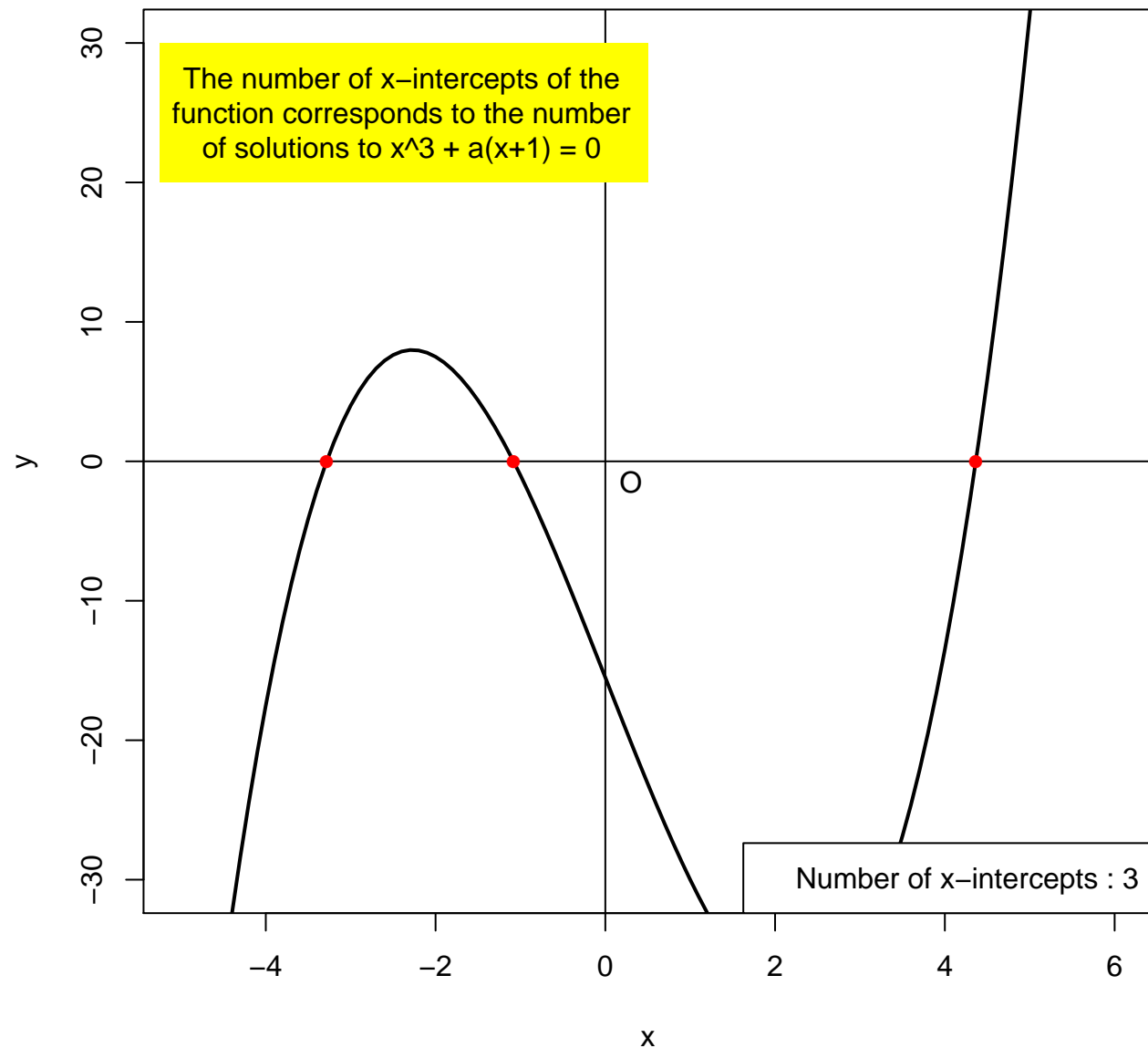


$$a = -15.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

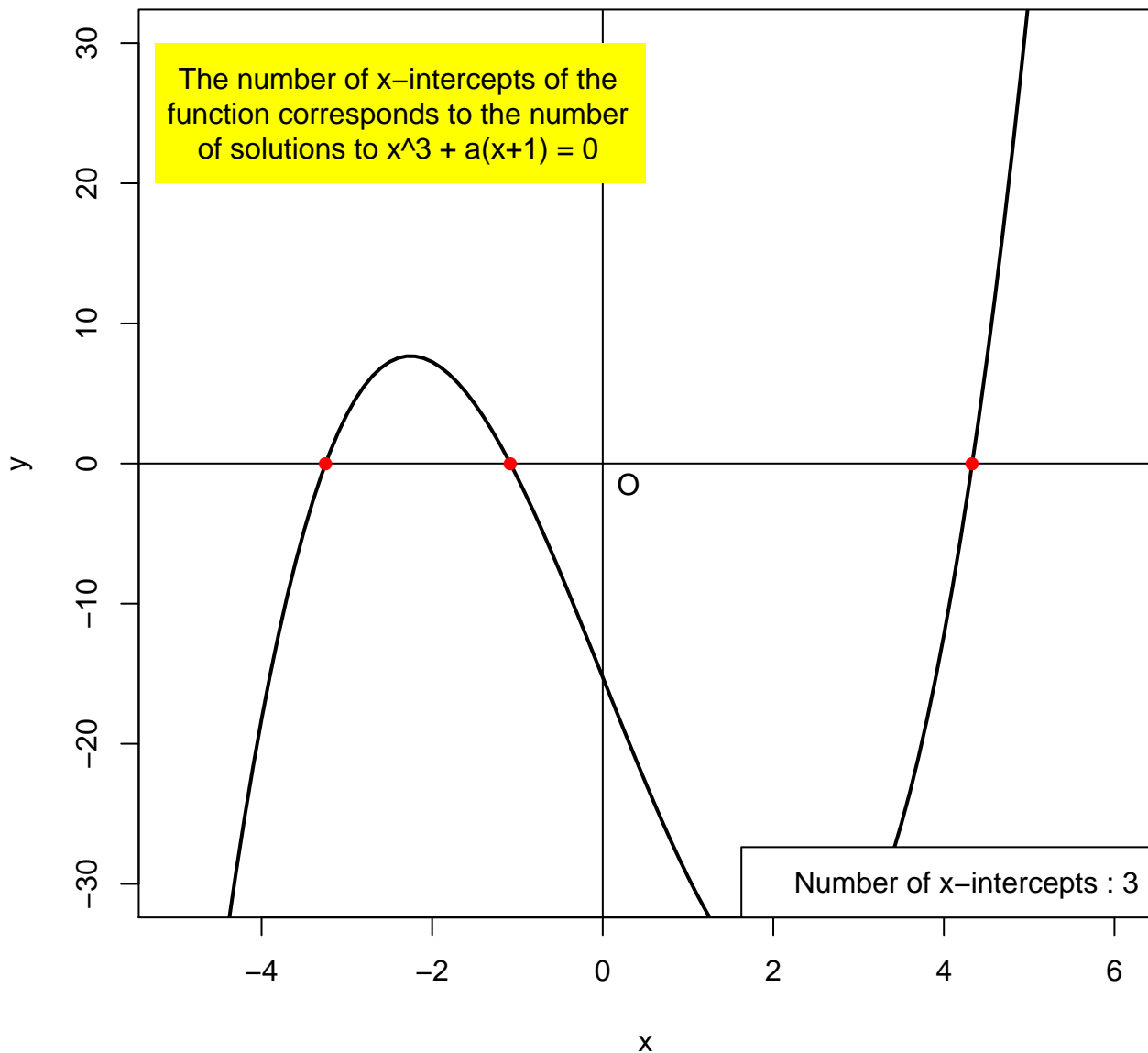
O

Number of x-intercepts : 3



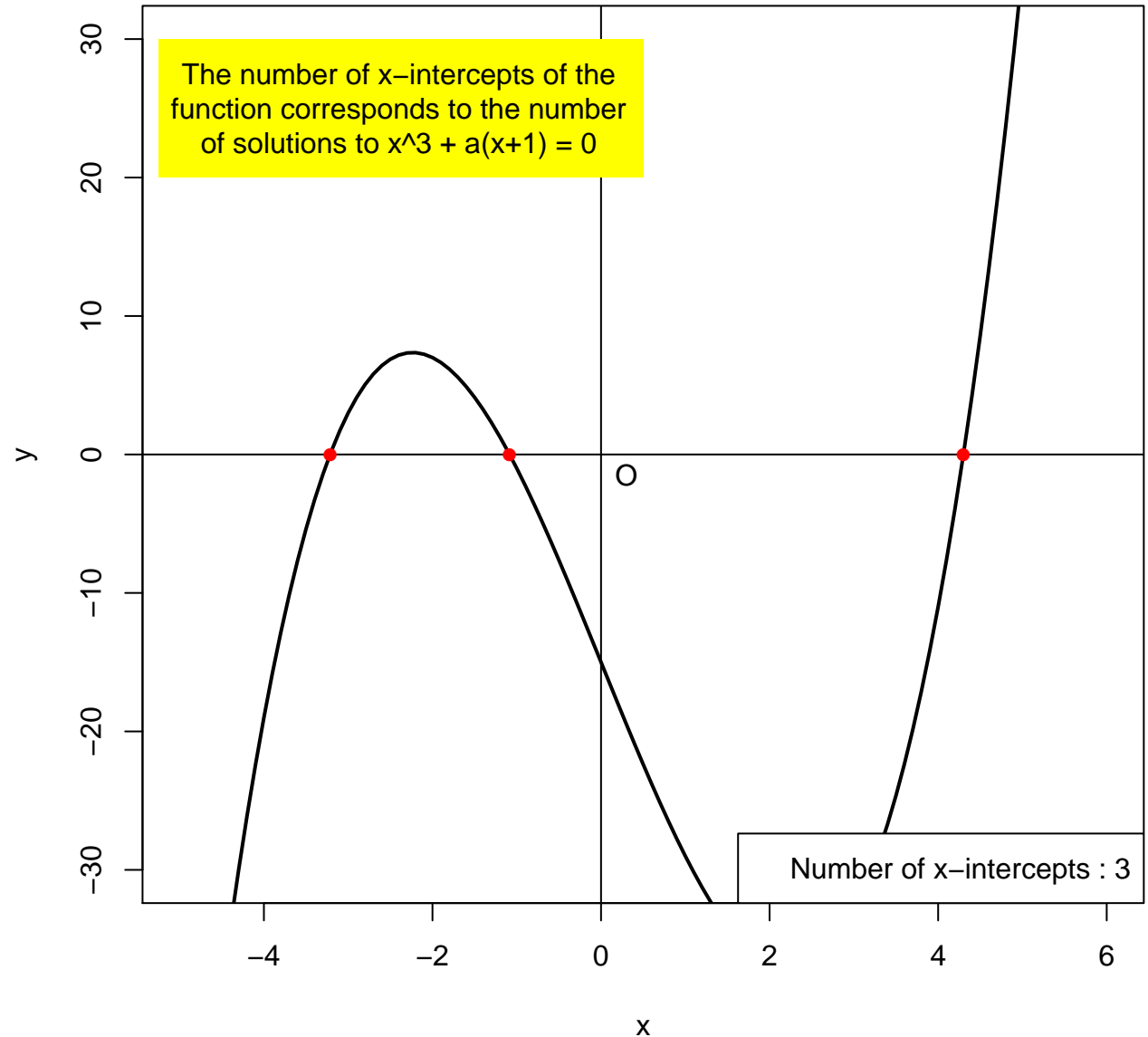
$$a = -15.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



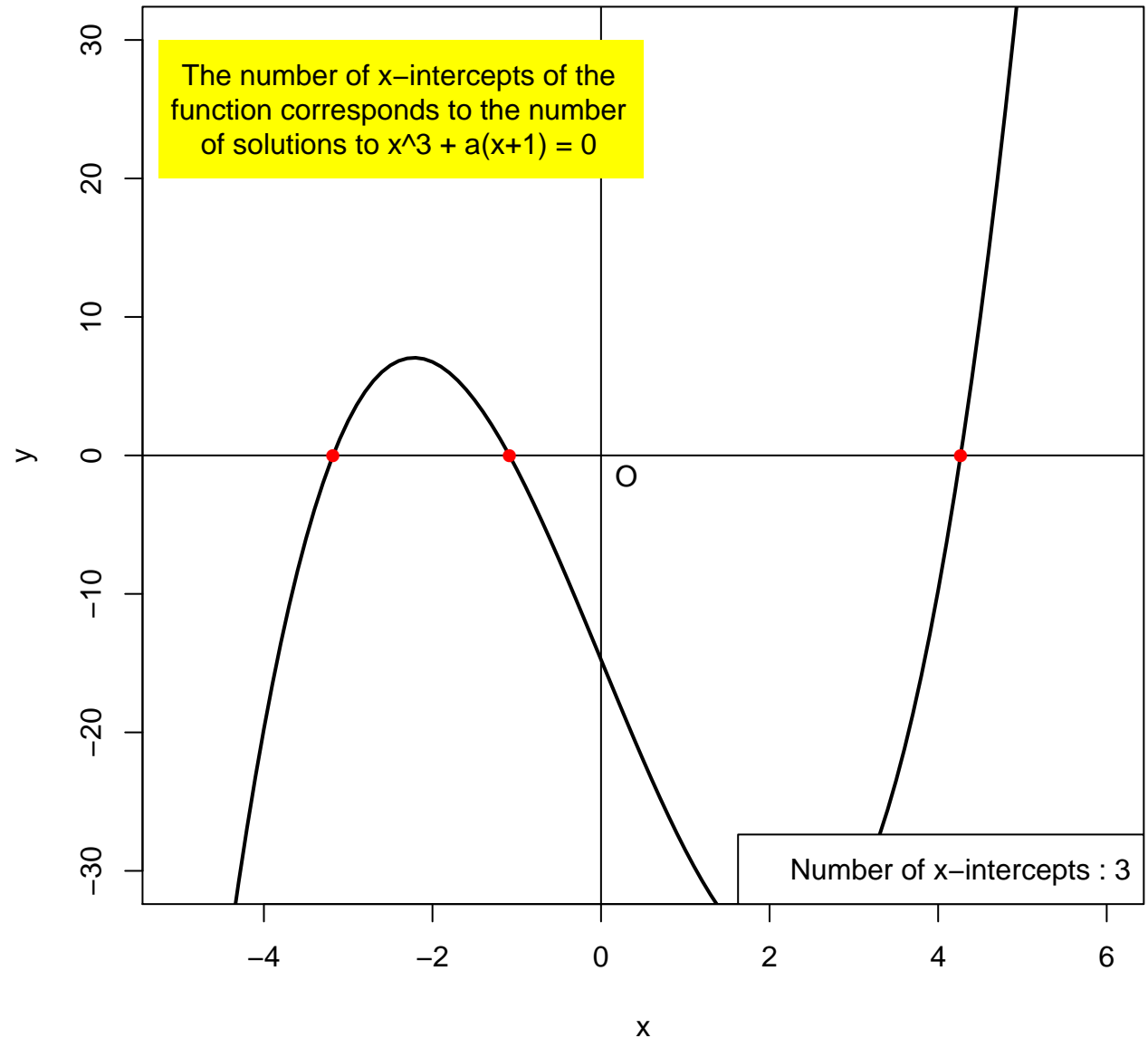
$$a = -15$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



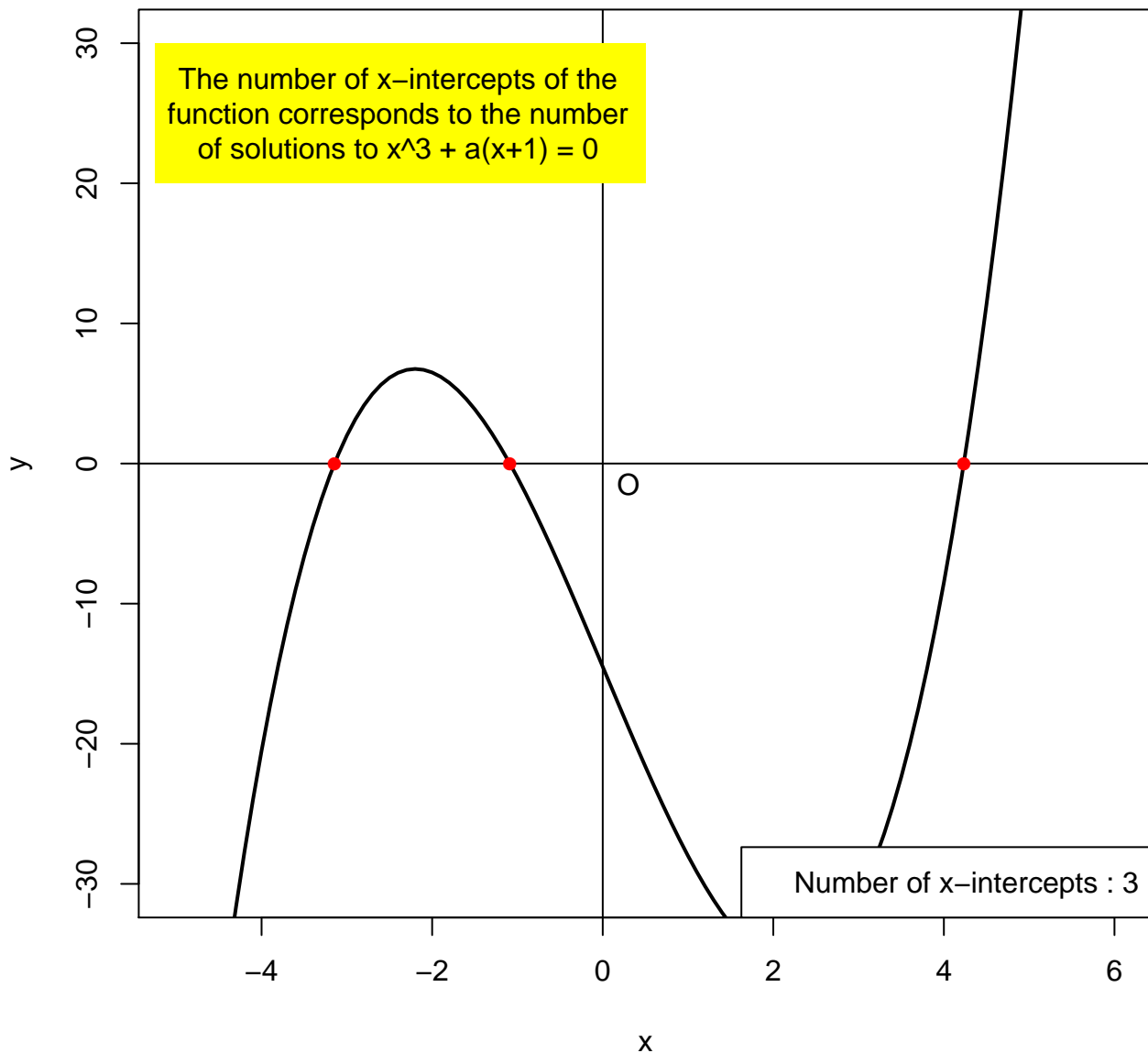
$$a = -14.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



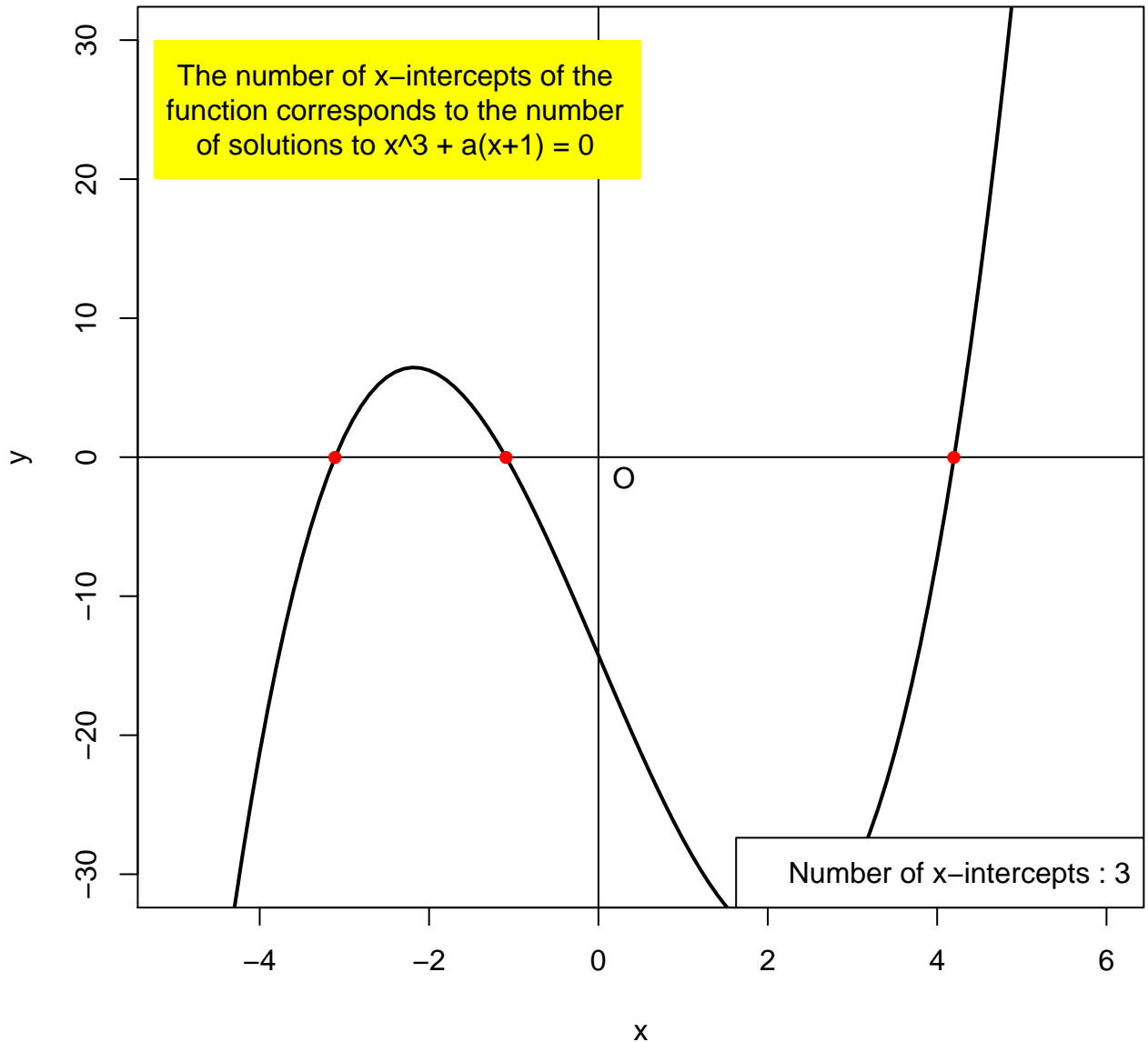
$$a = -14.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -14.25$$

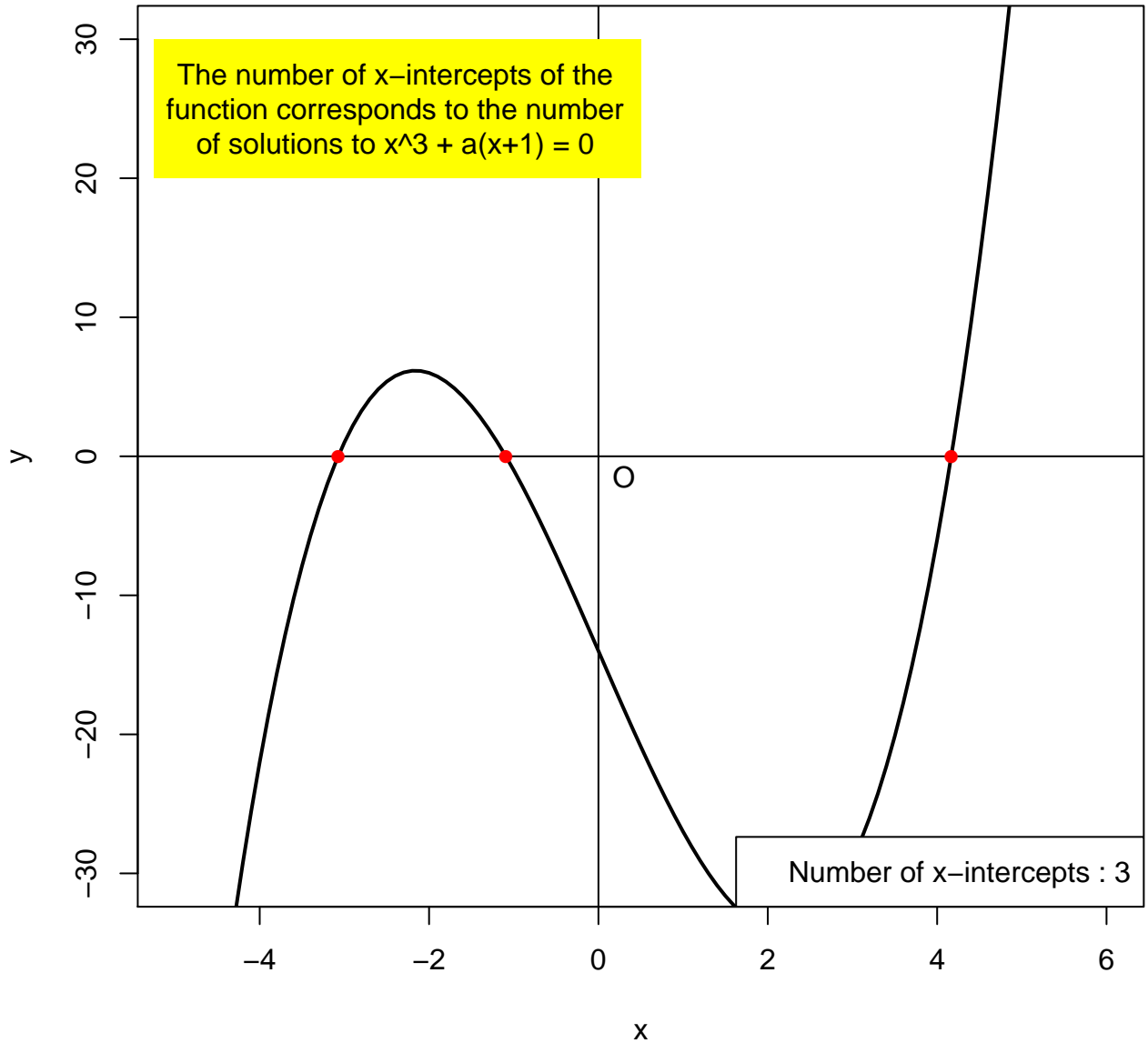
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





$$a = -14$$

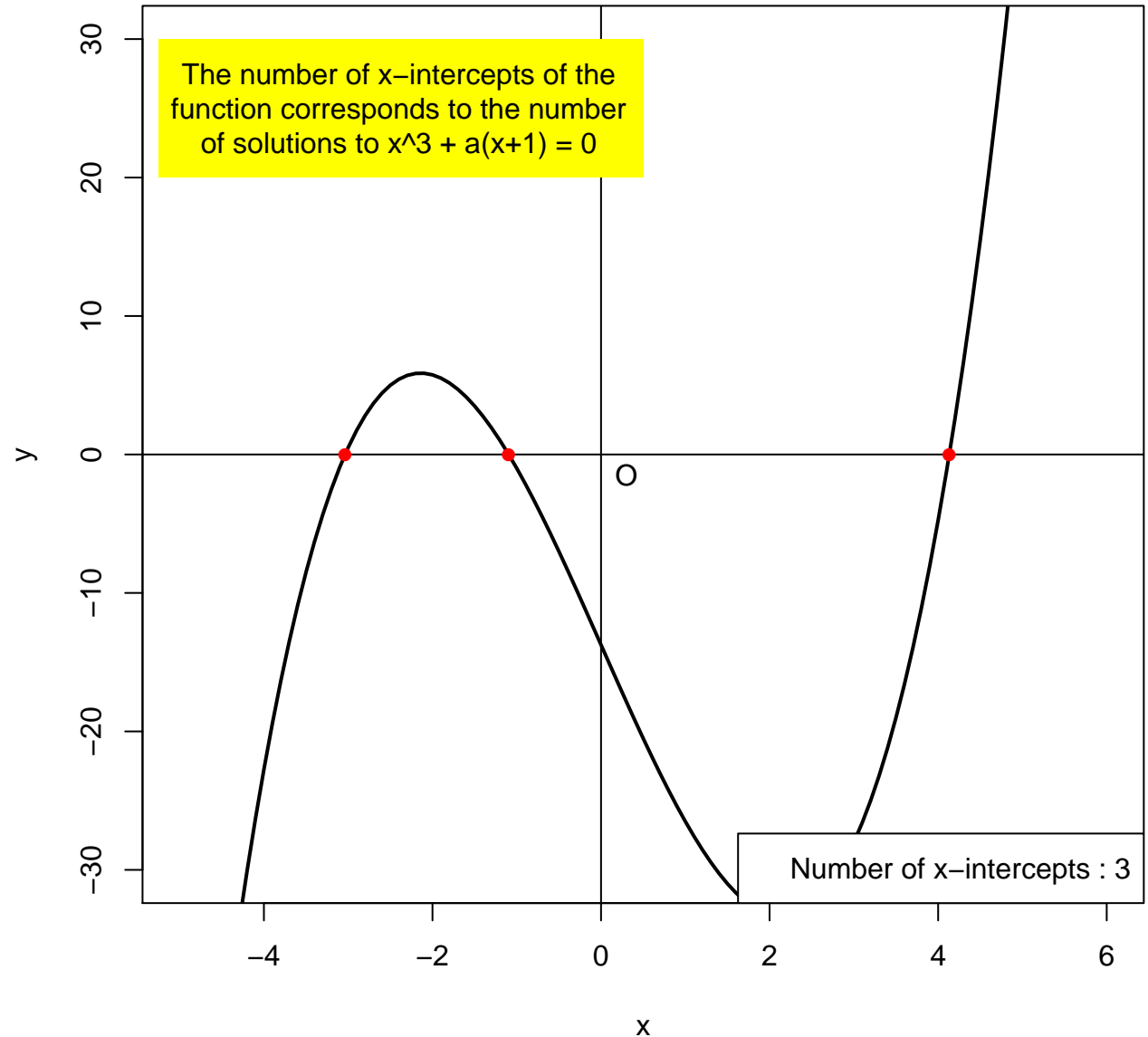
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

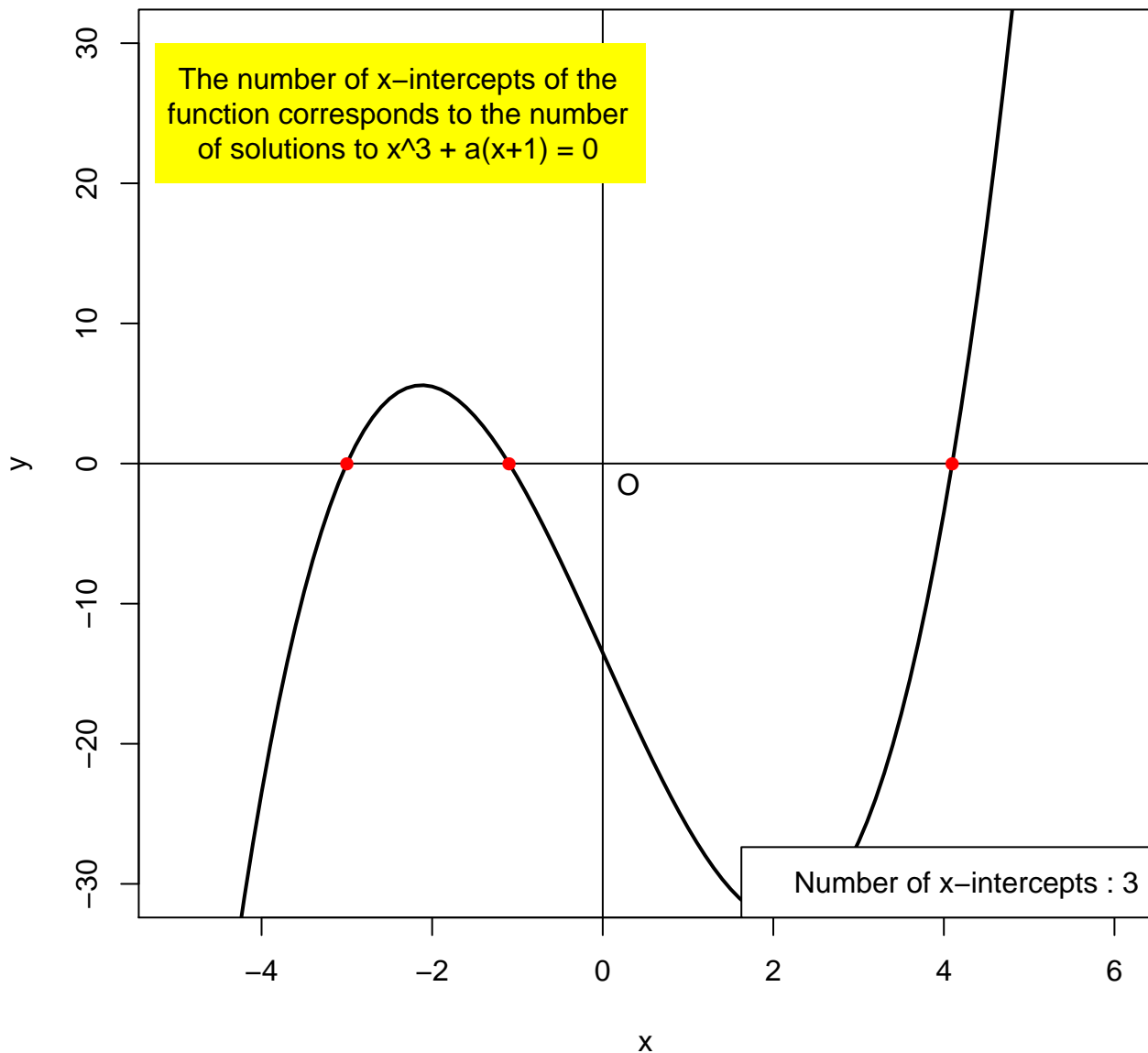
$$a = -13.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



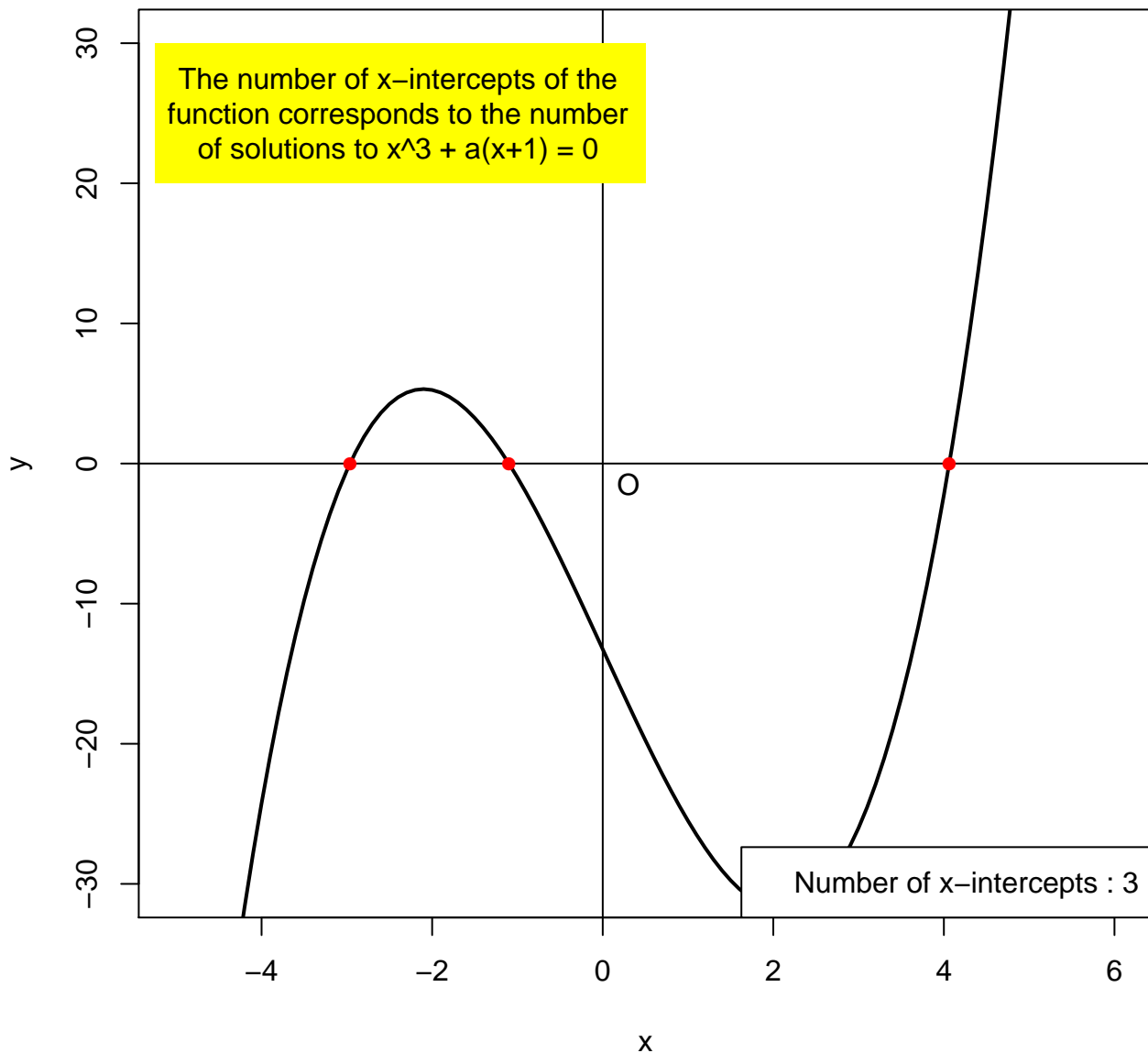
$$a = -13.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -13.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

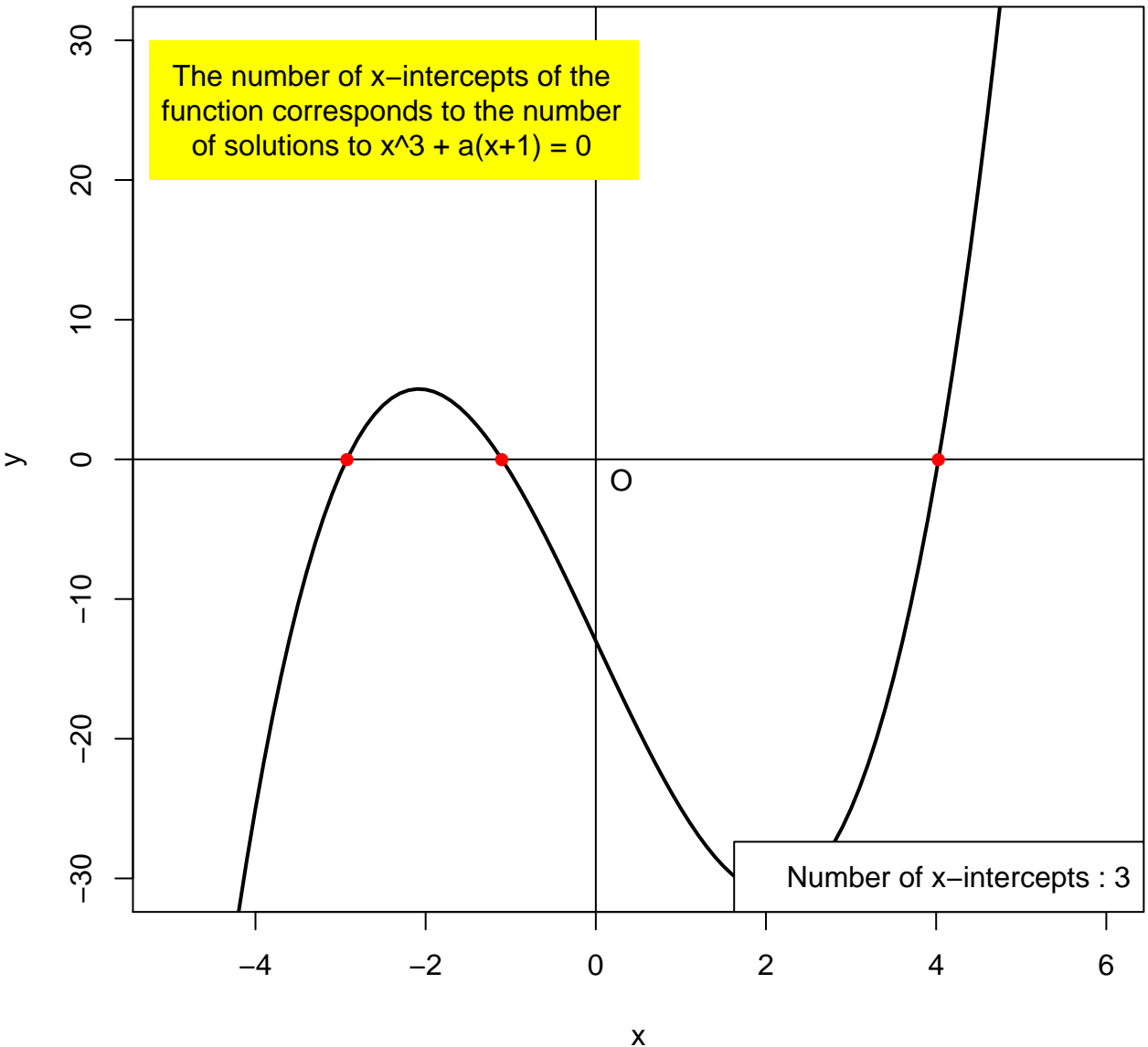


$$a = -13$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

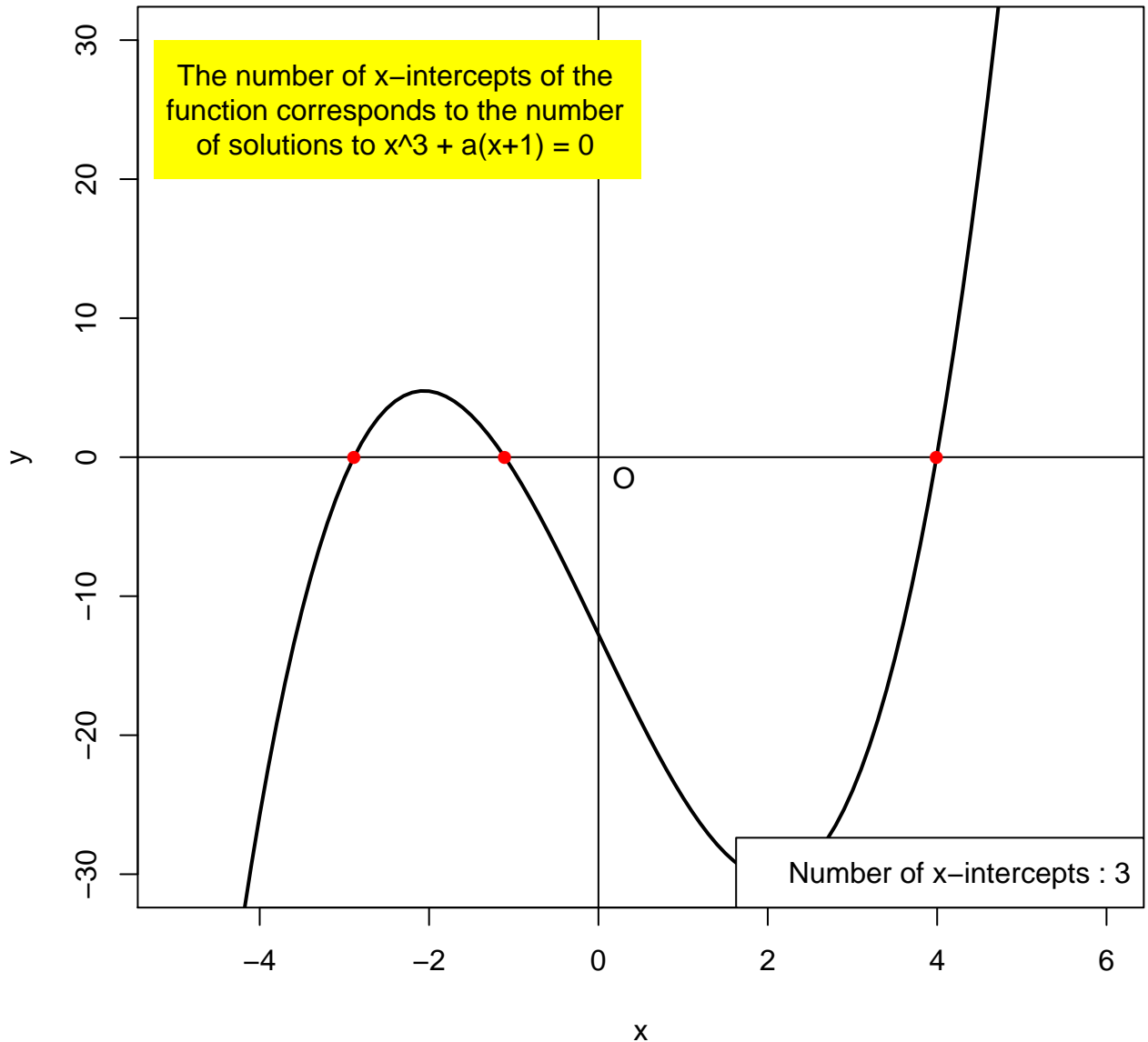
O

Number of x-intercepts : 3



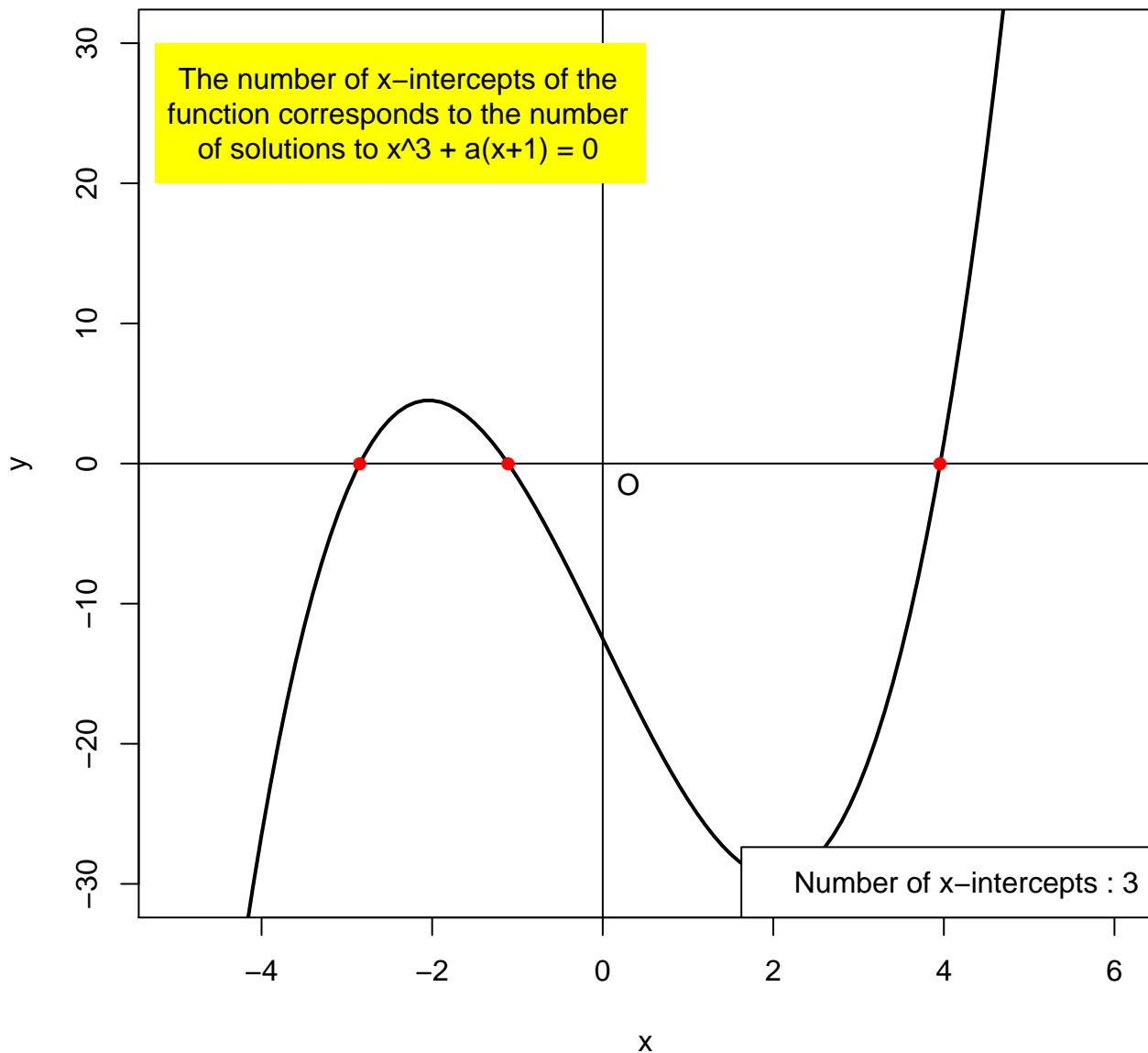
$$a = -12.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



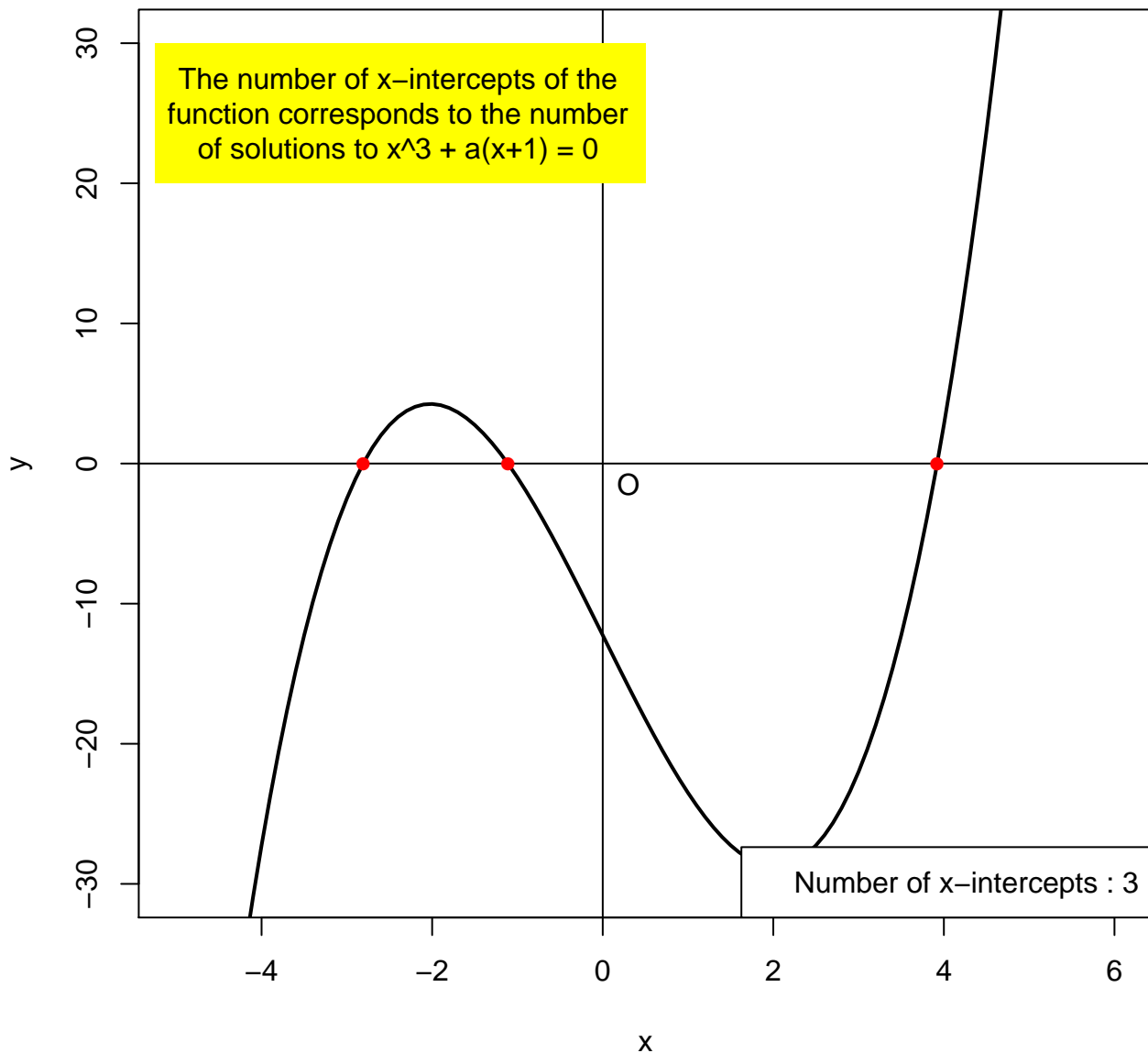
$$a = -12.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -12.25$$

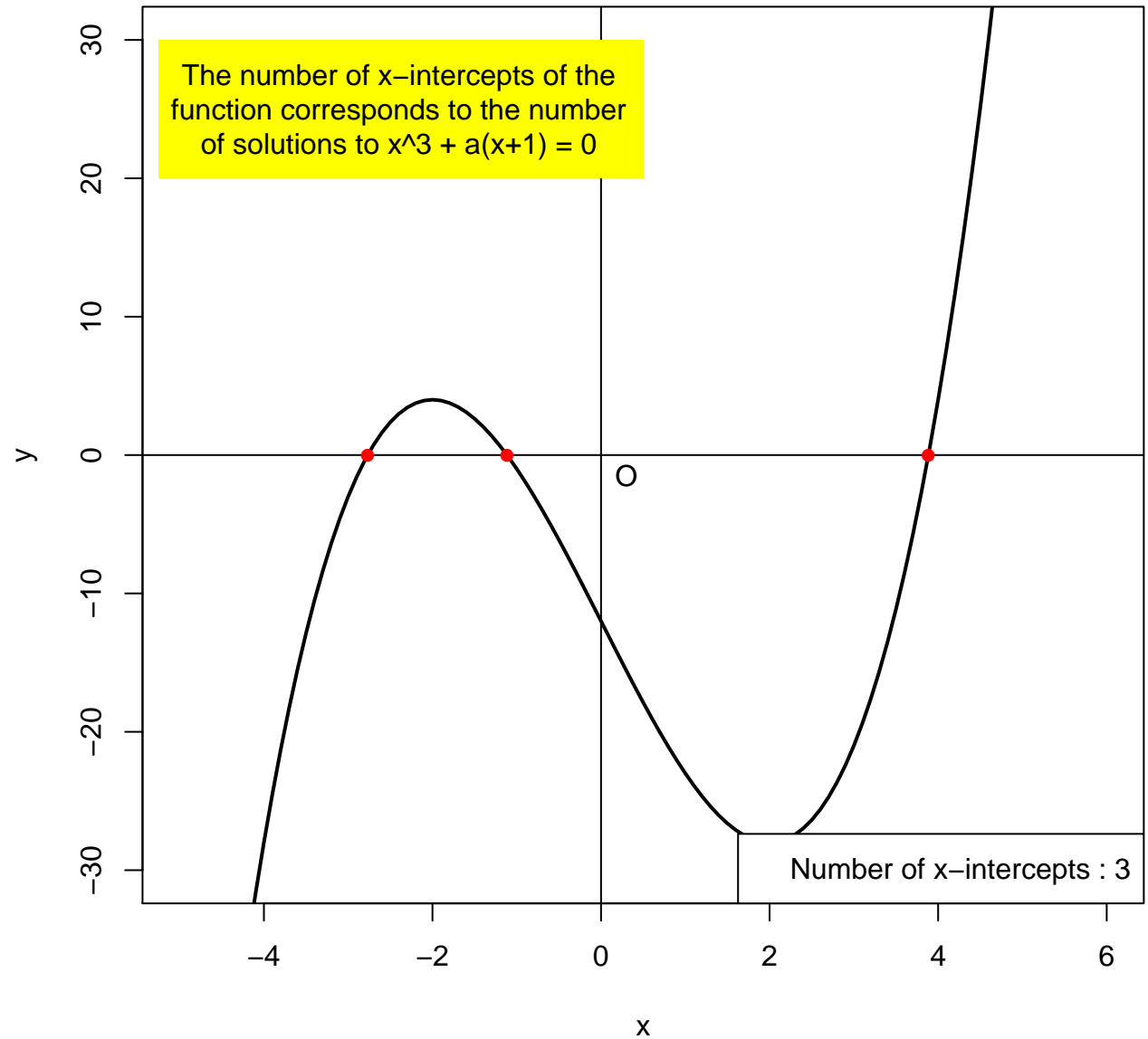
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





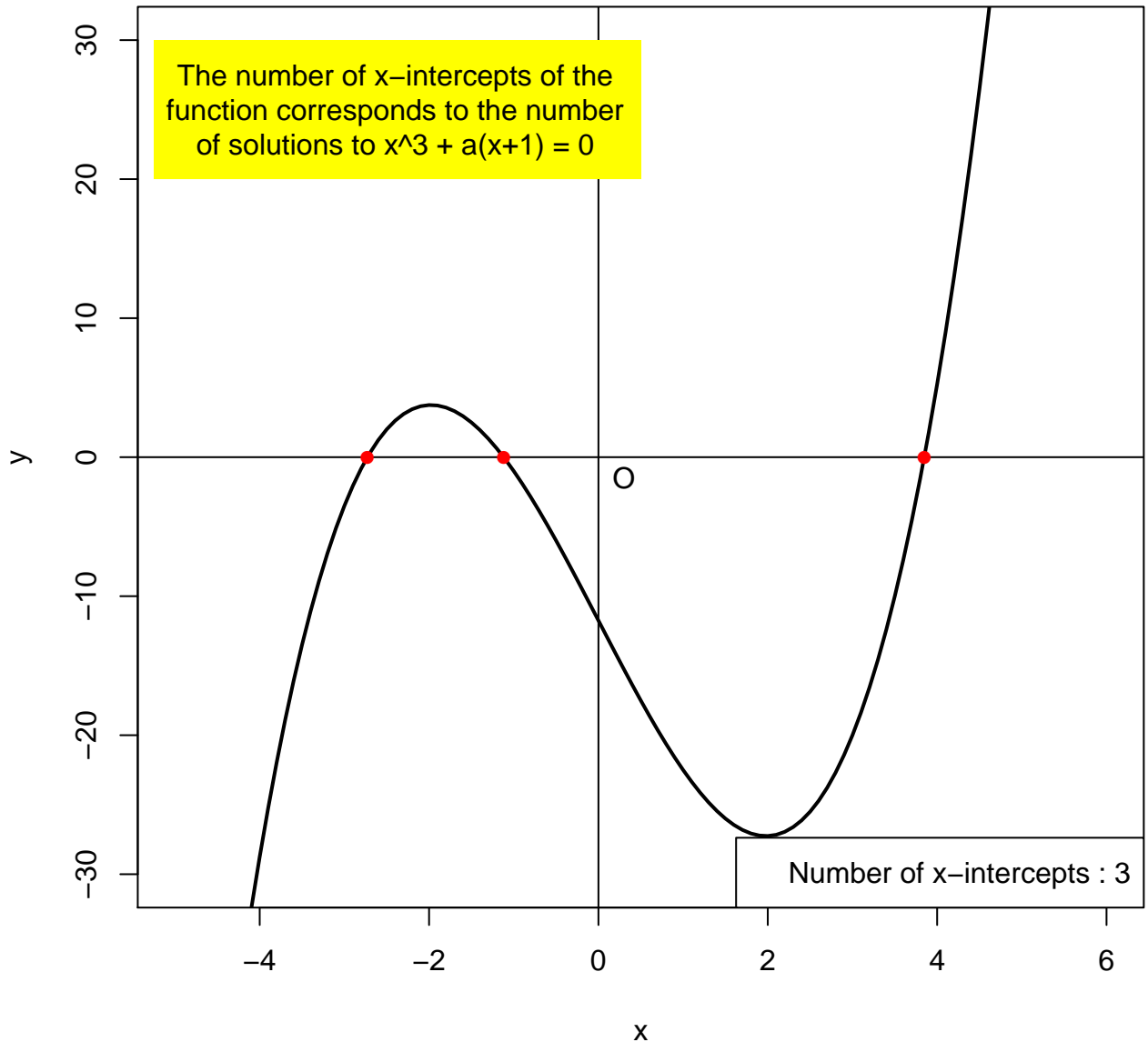
$$a = -12$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



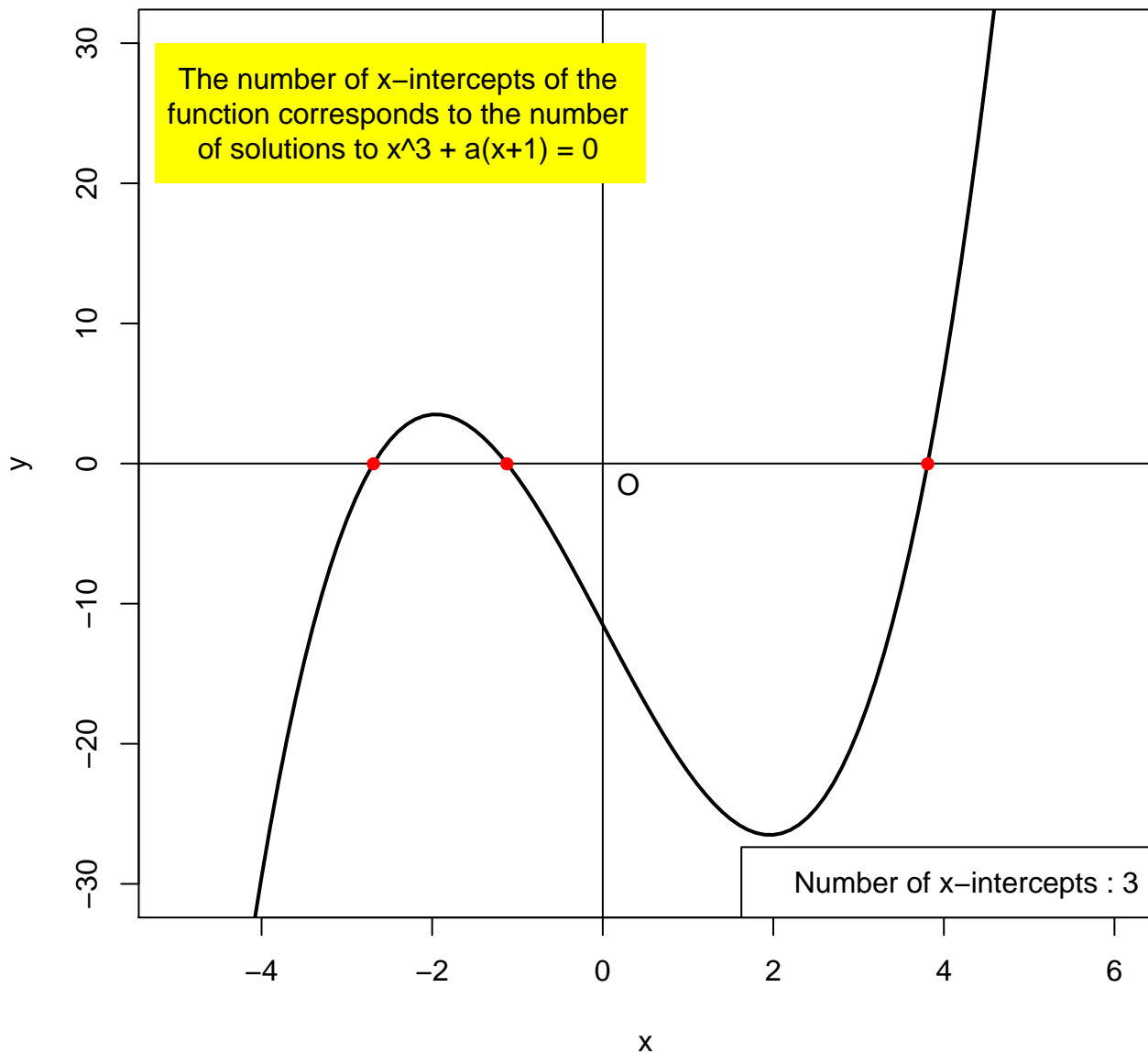
$$a = -11.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



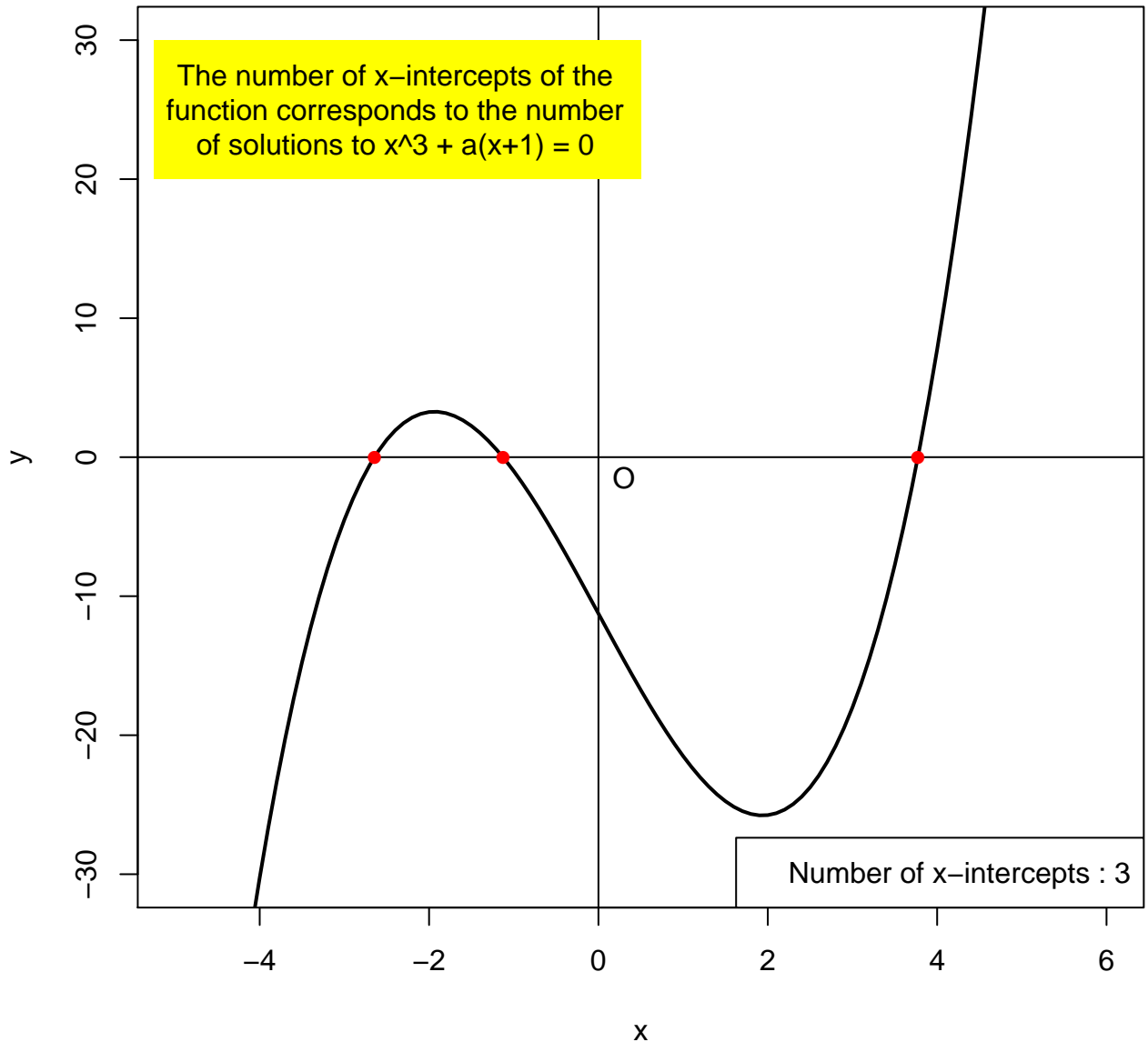
$$a = -11.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



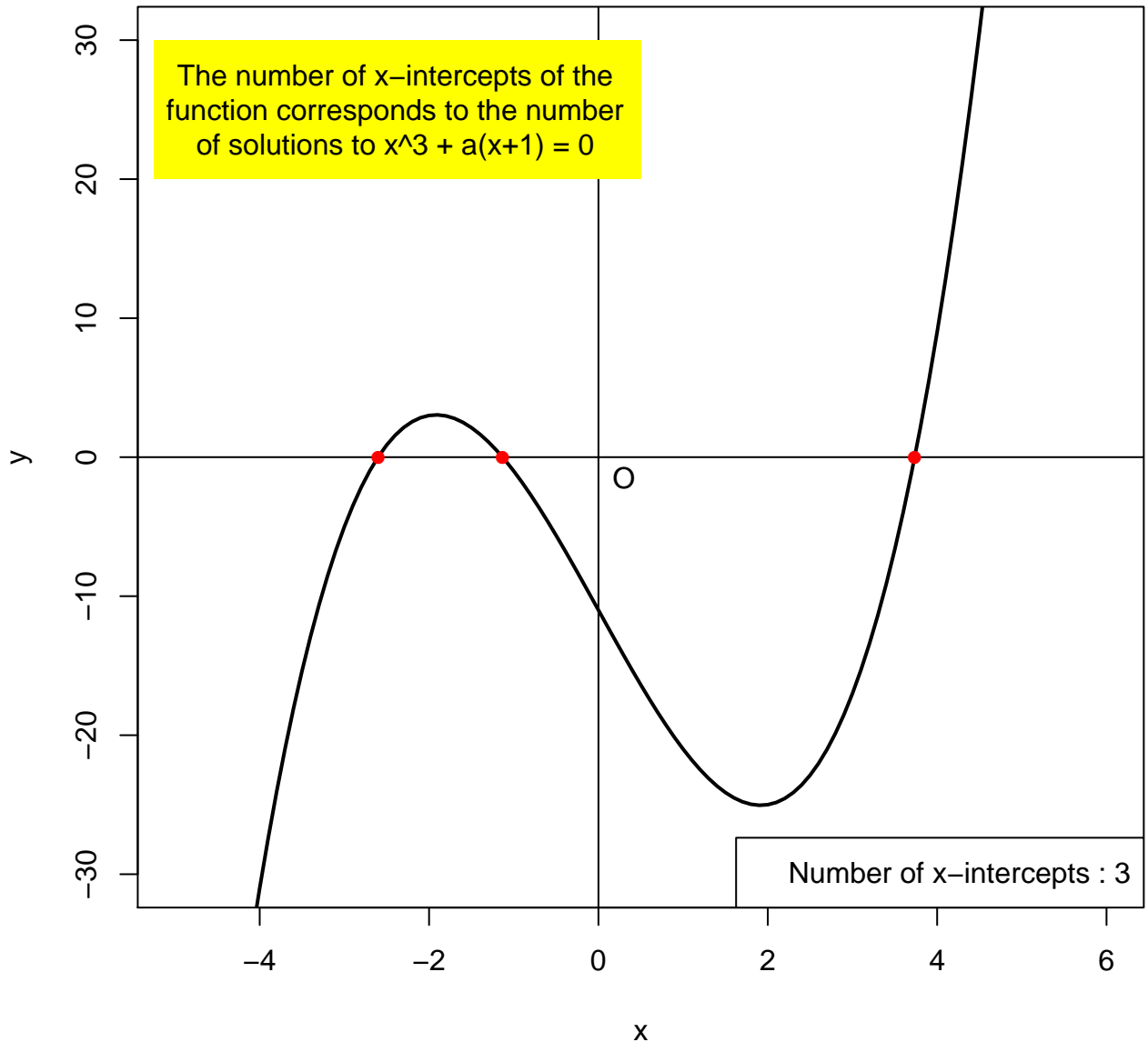
$$a = -11.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



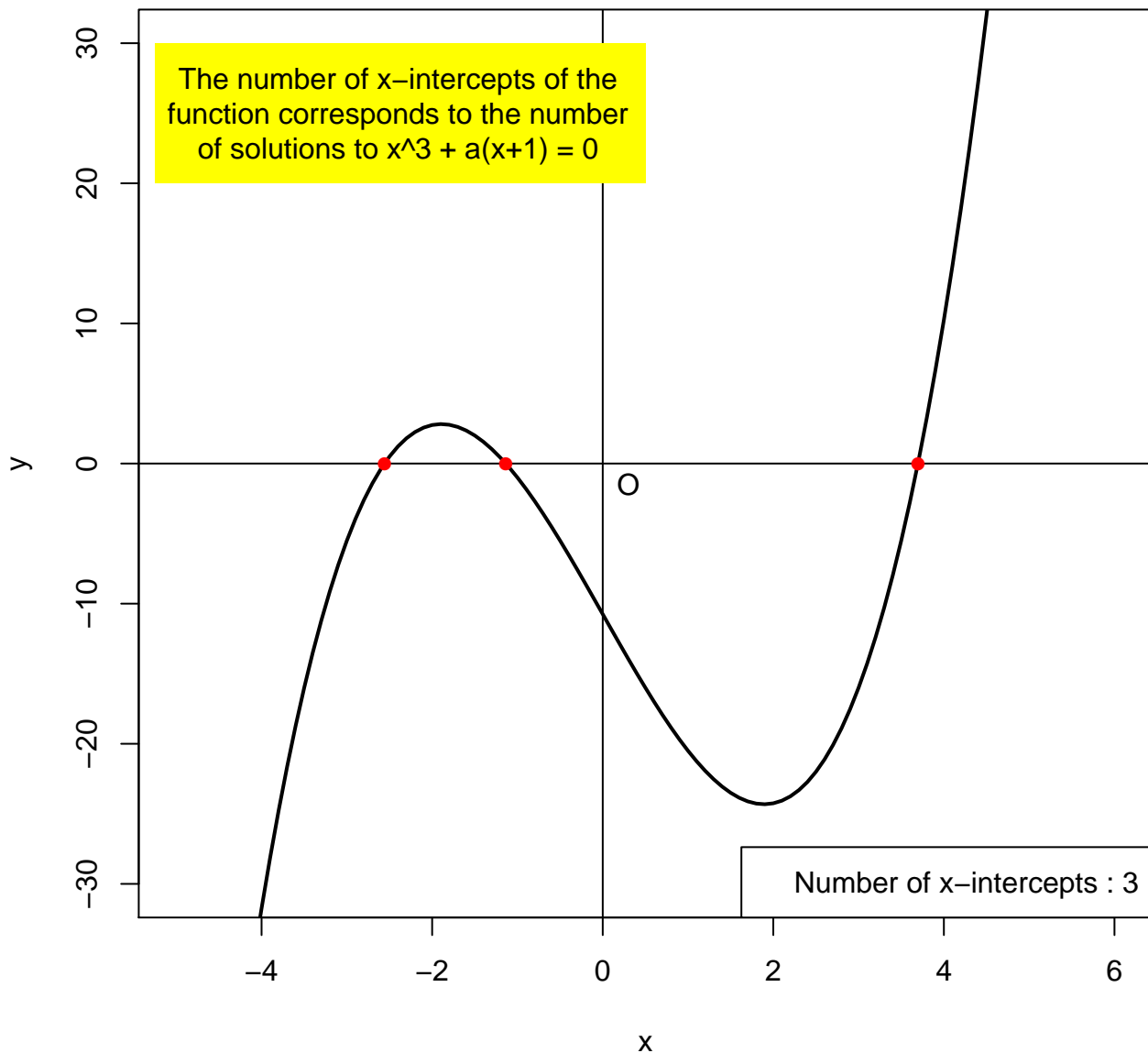
$$a = -11$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



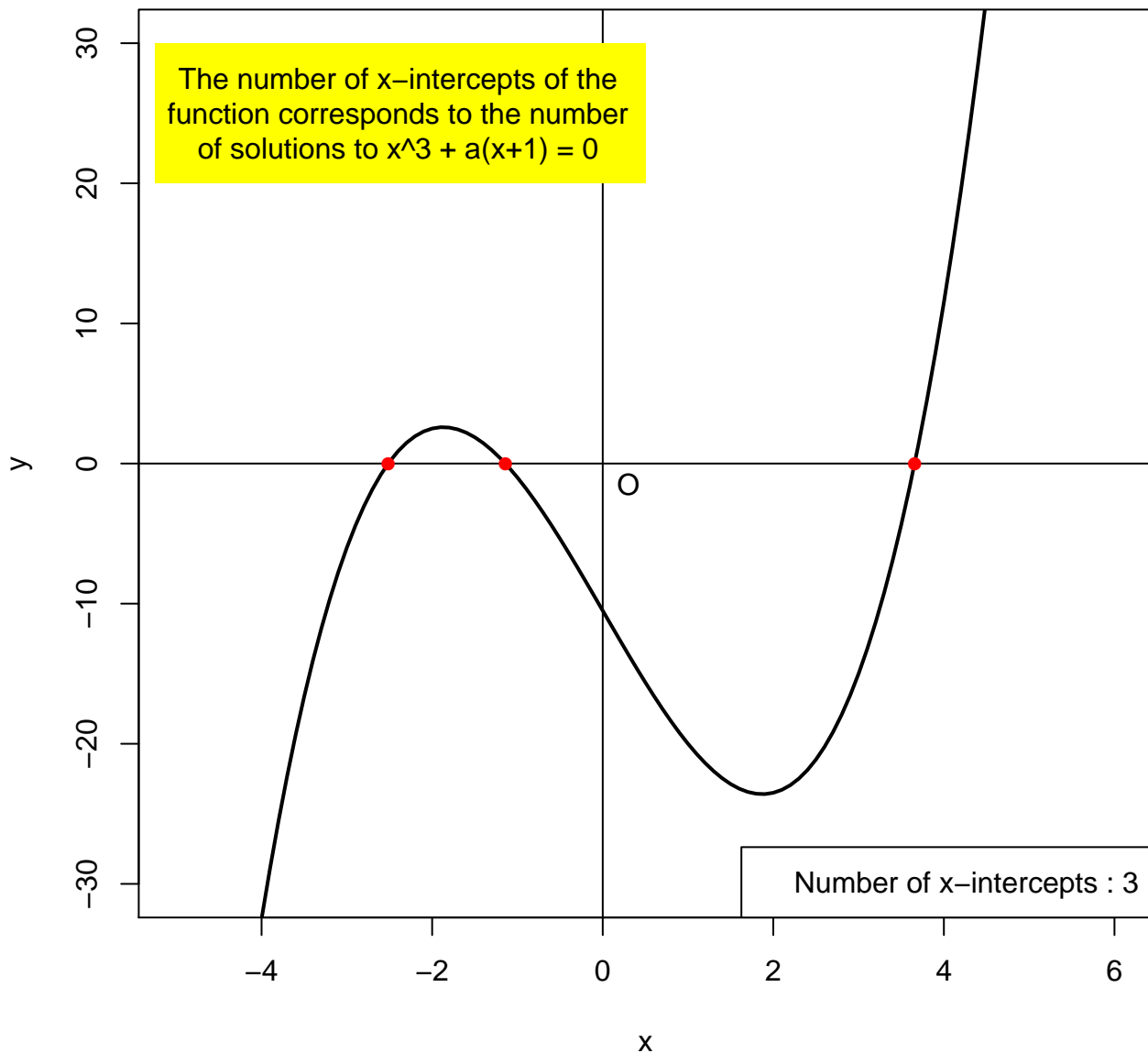
$$a = -10.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



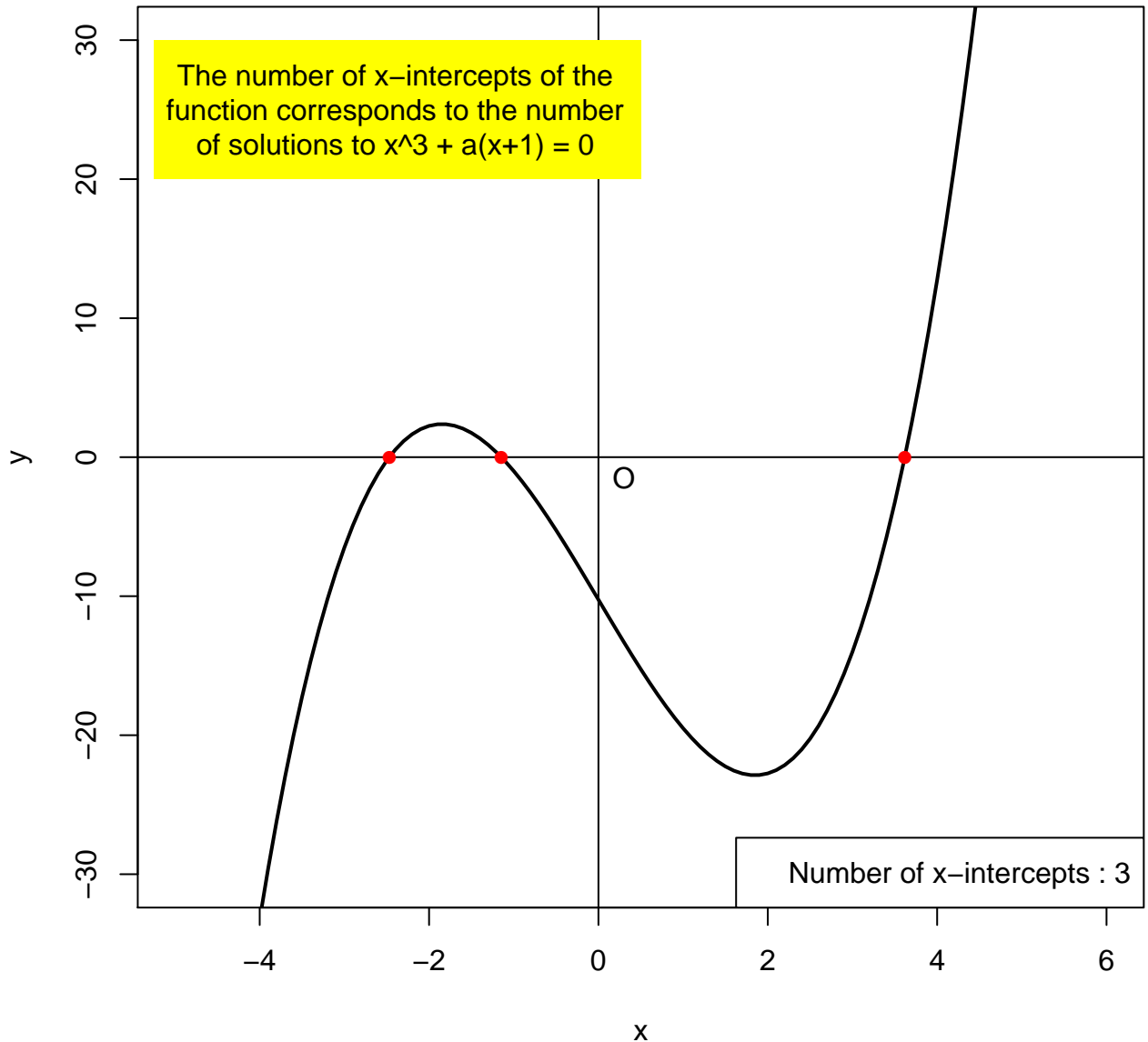
$$a = -10.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -10.25$$

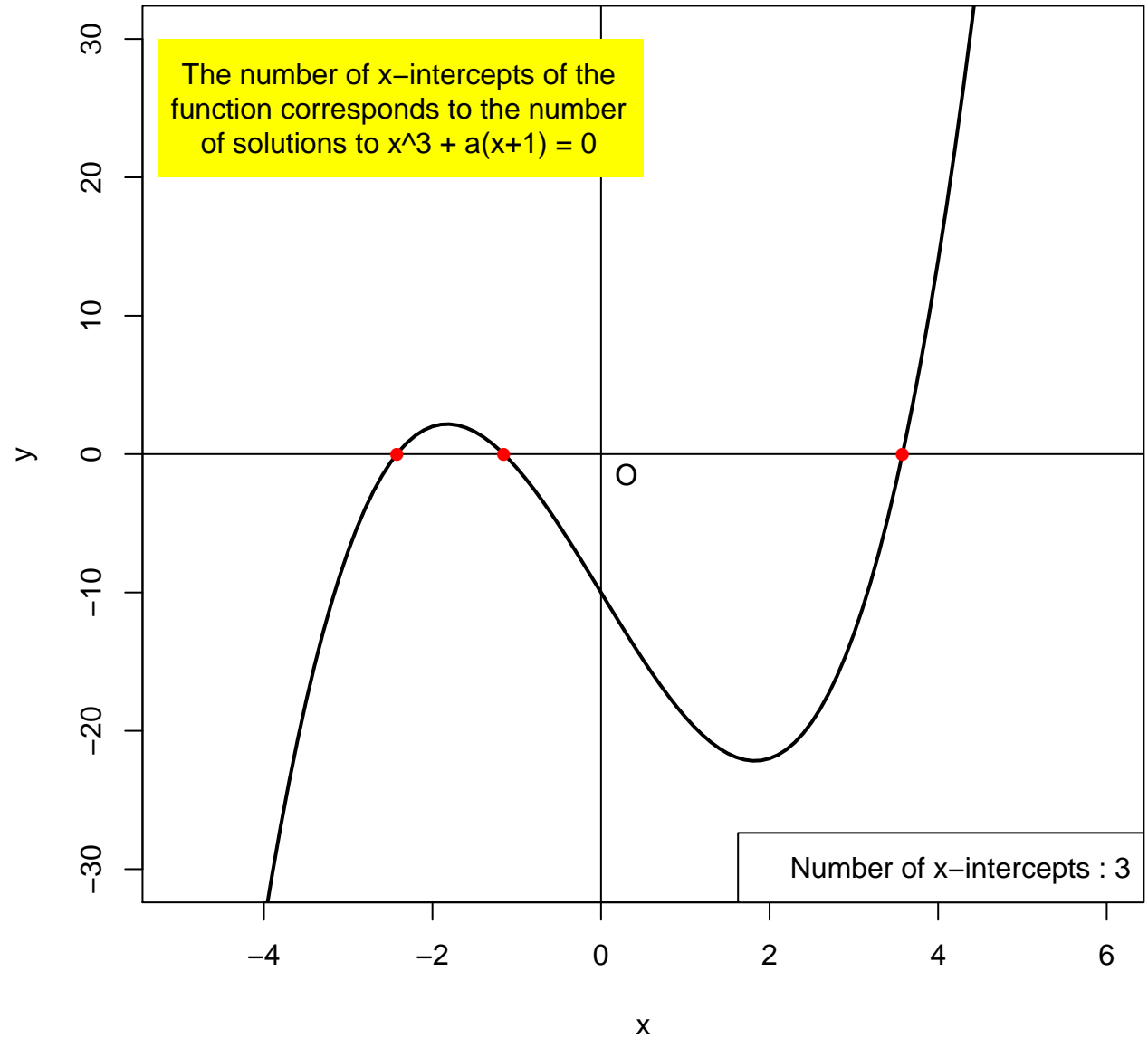
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





$$a = -10$$

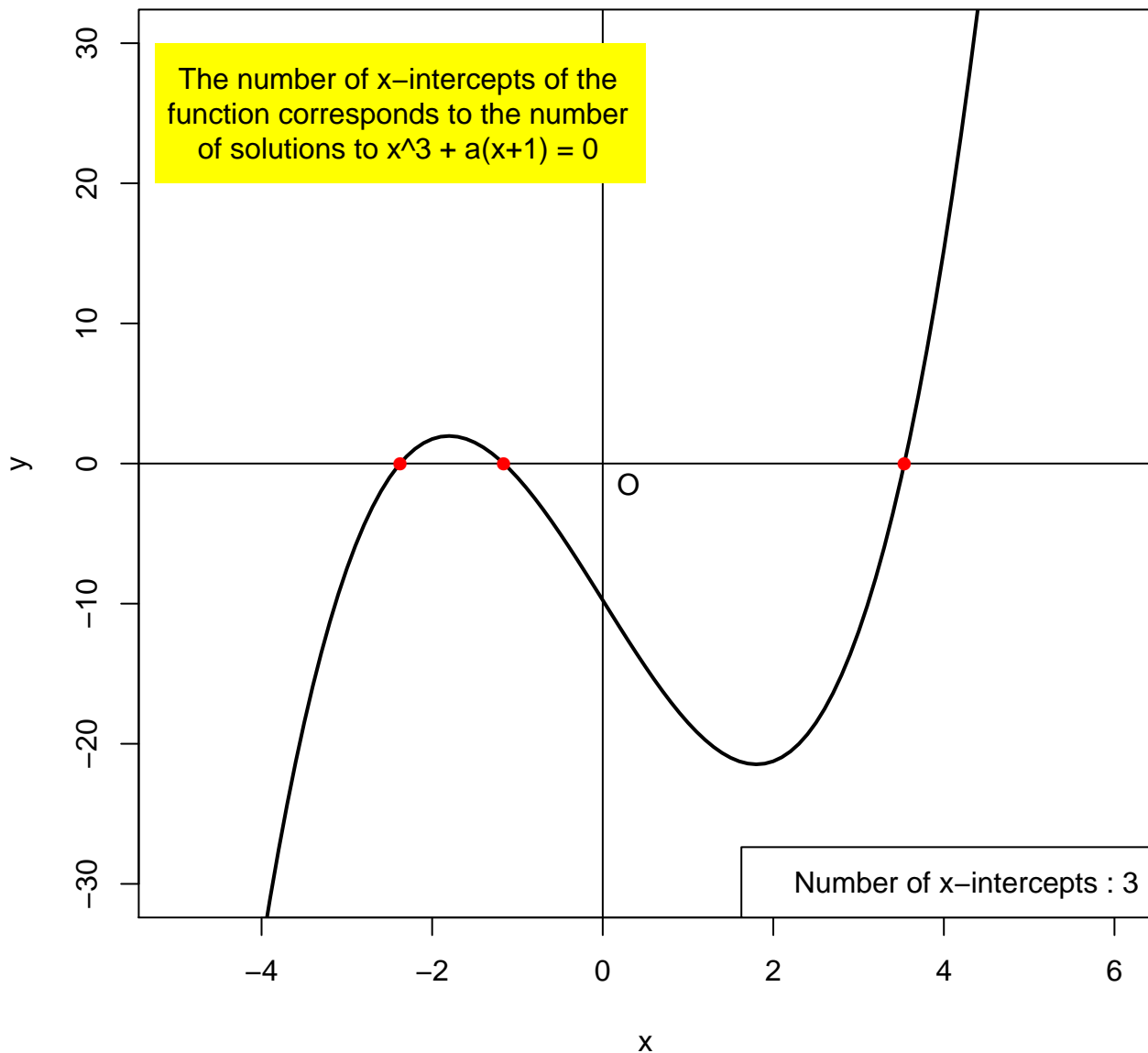
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

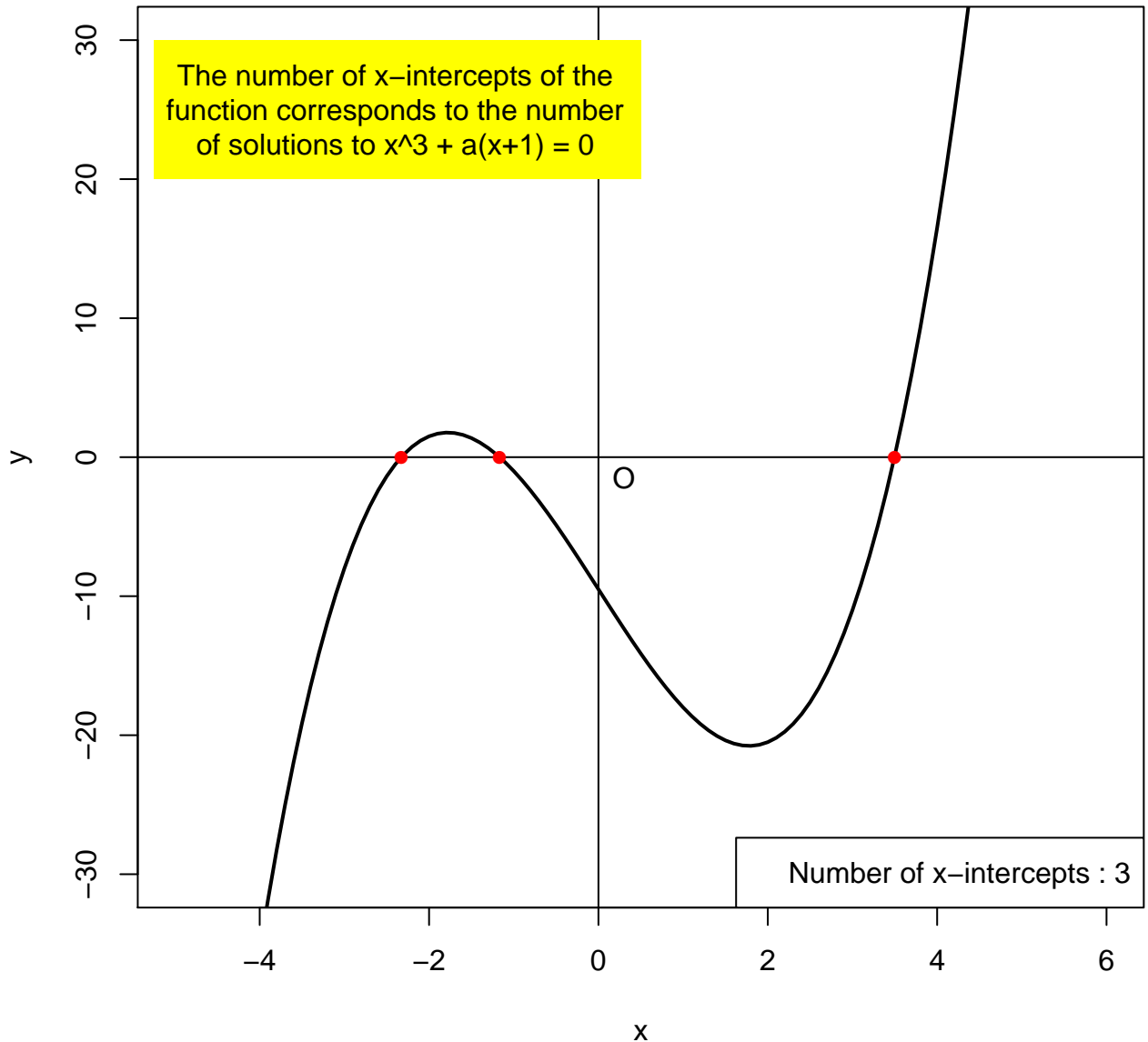
$$a = -9.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



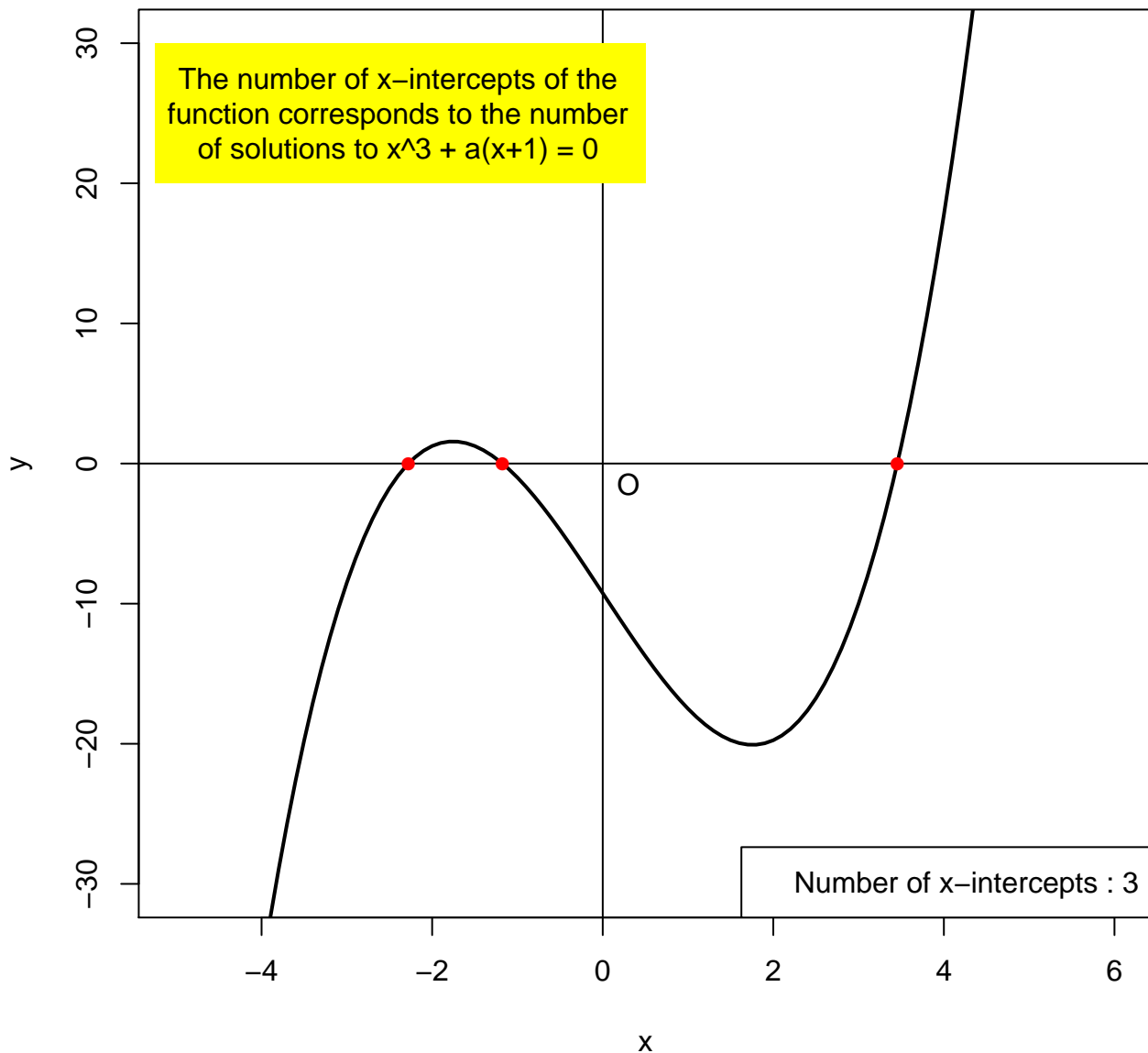
$$a = -9.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



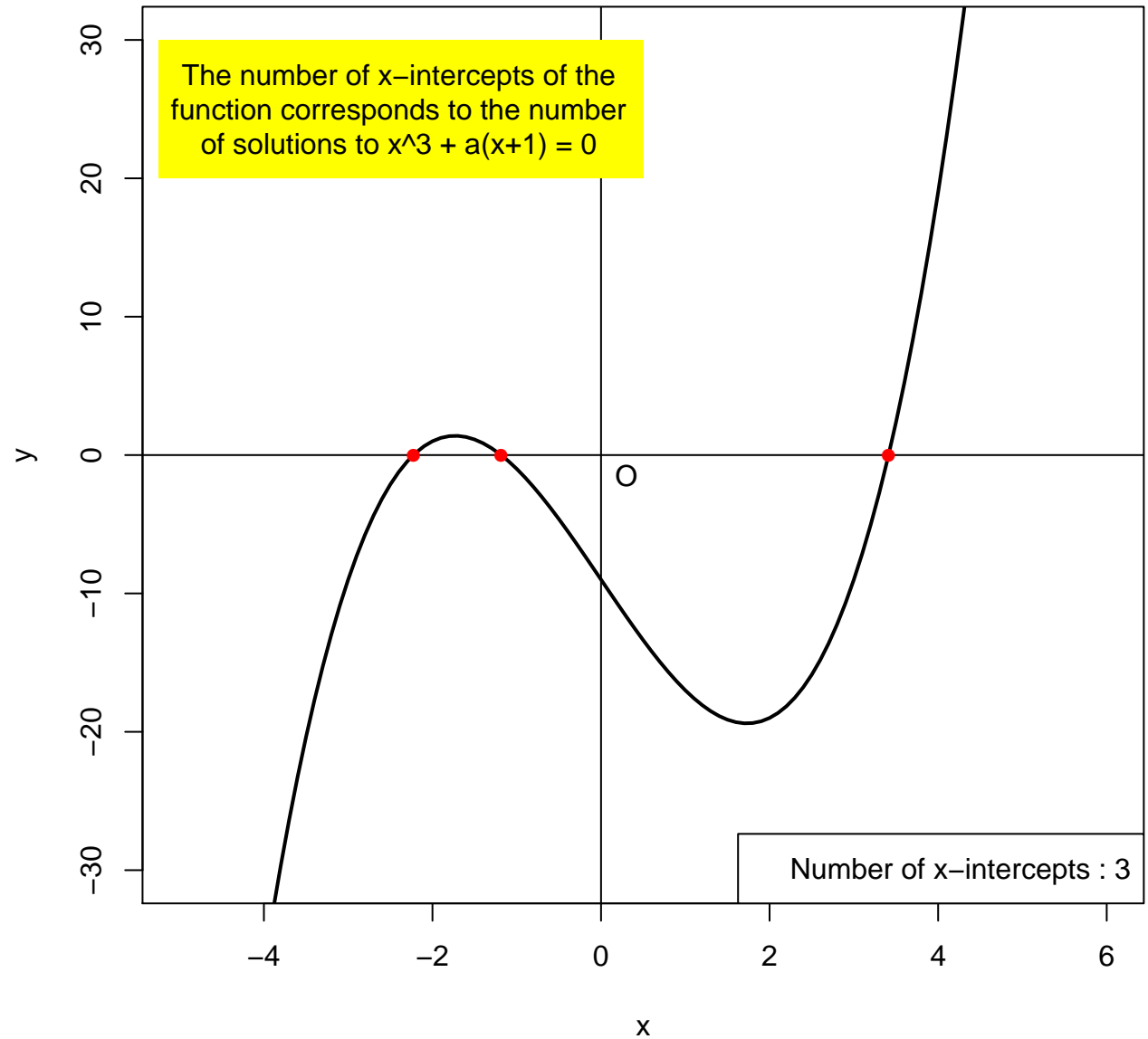
$$a = -9.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



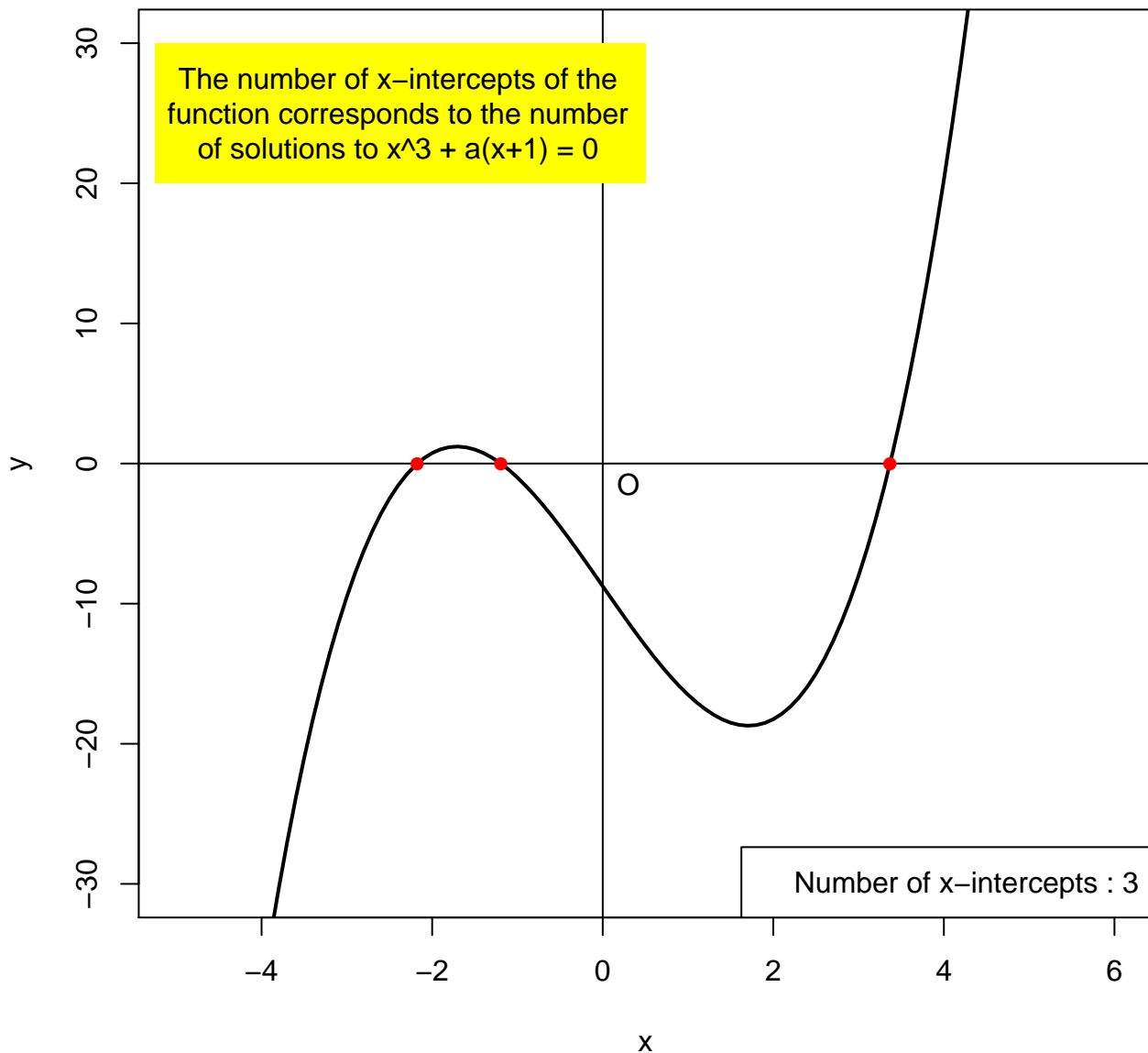
$$a = -9$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -8.75$$

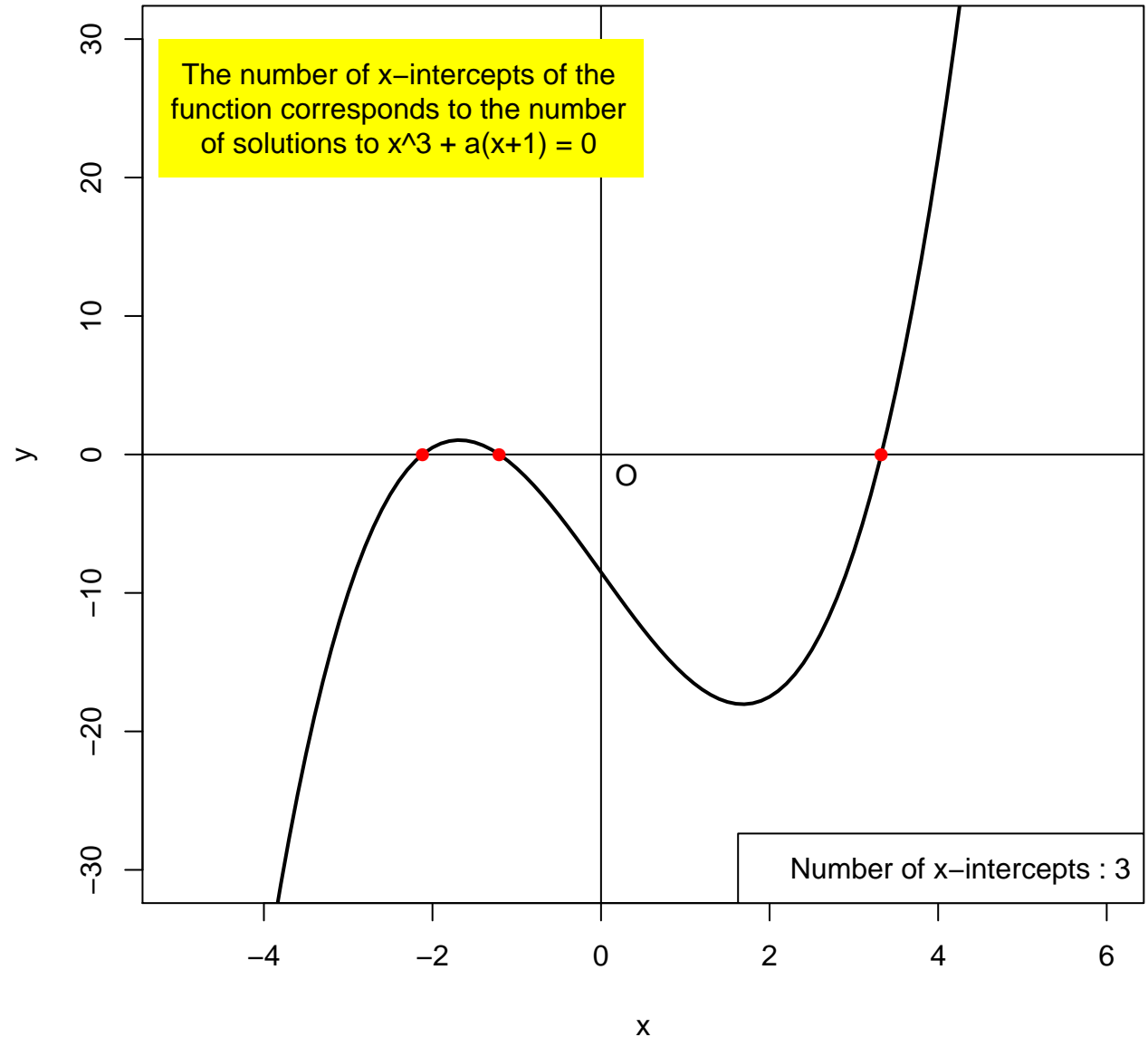
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

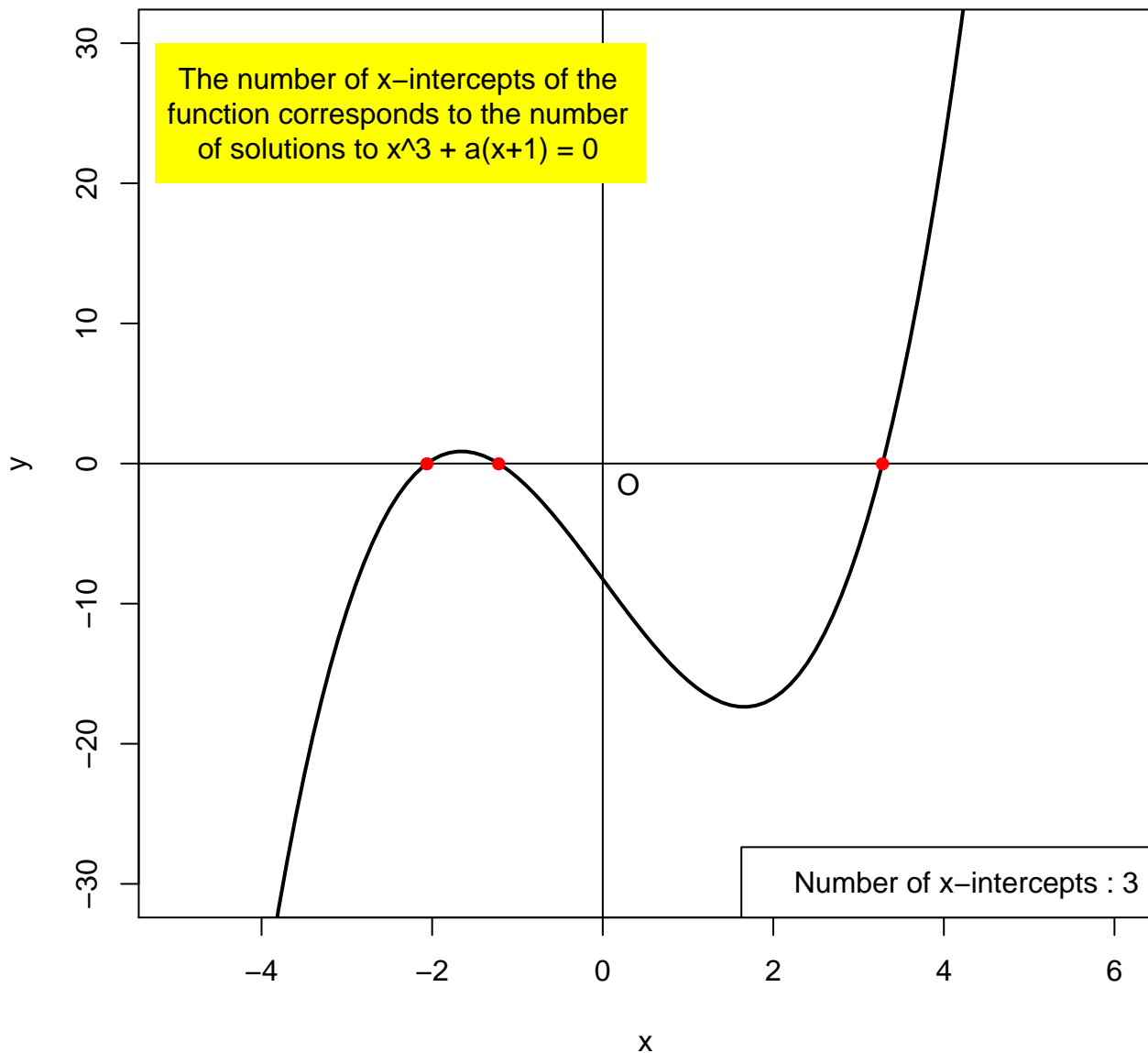
$$a = -8.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -8.25$$

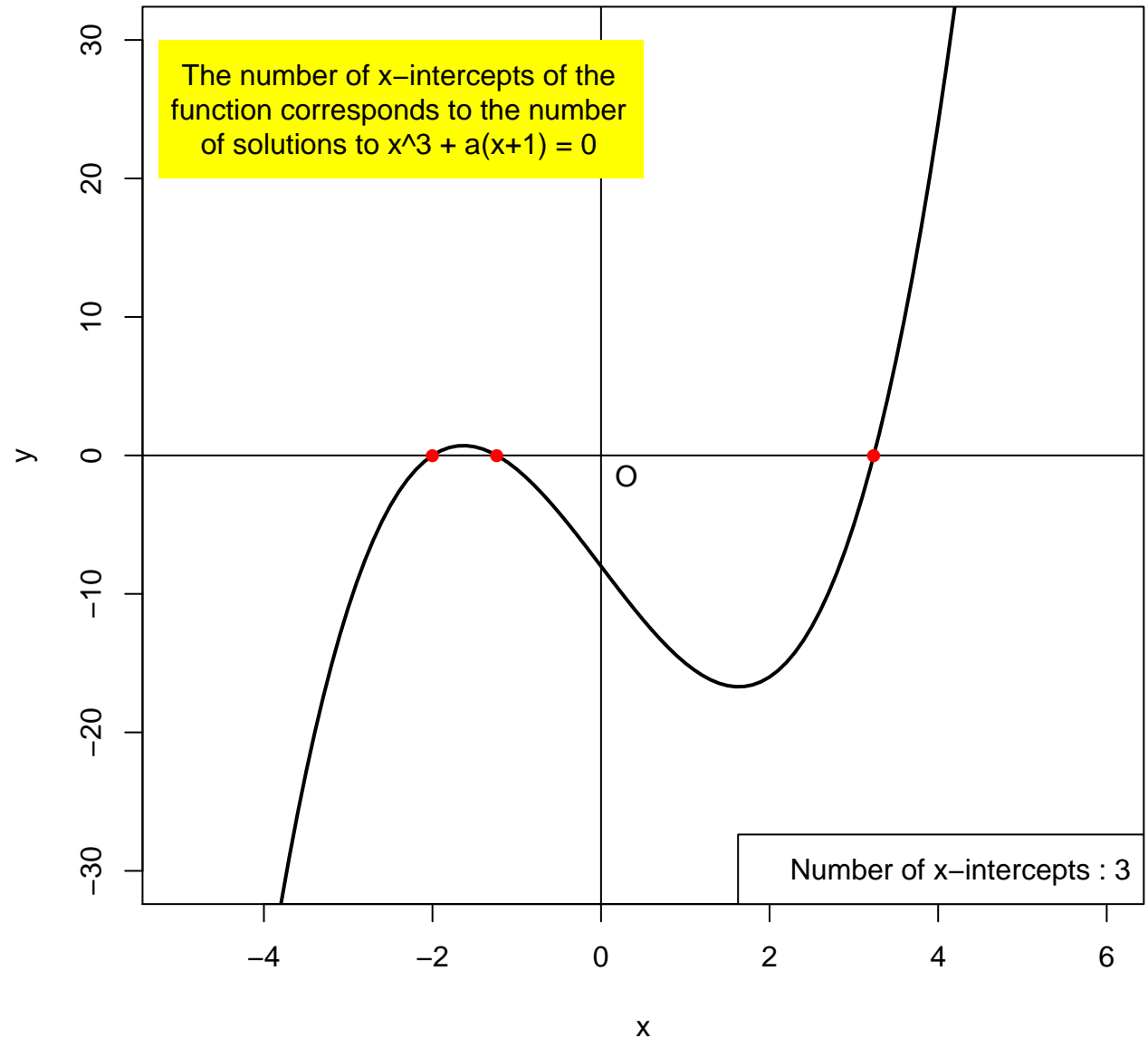
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





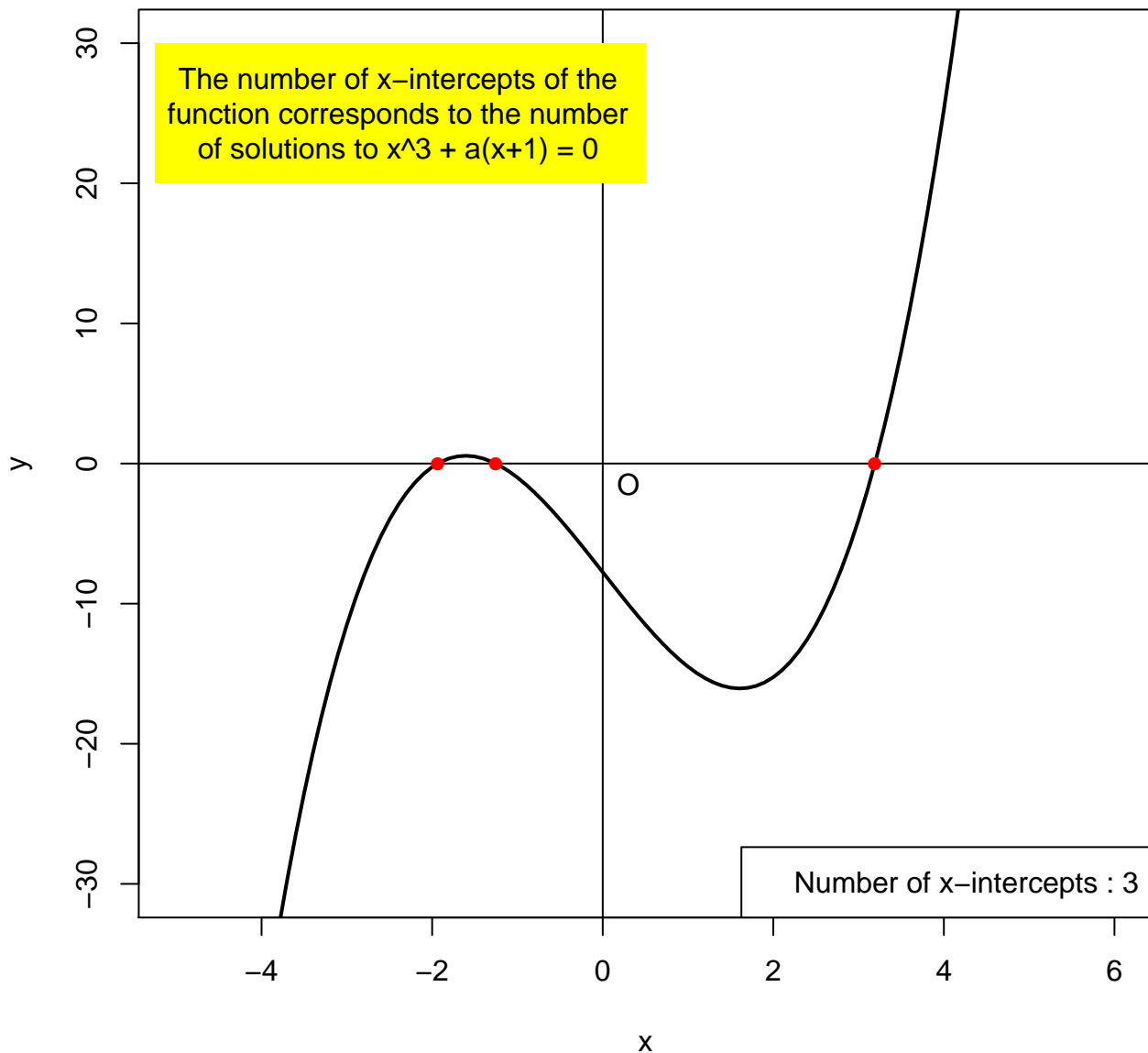
$$a = -8$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



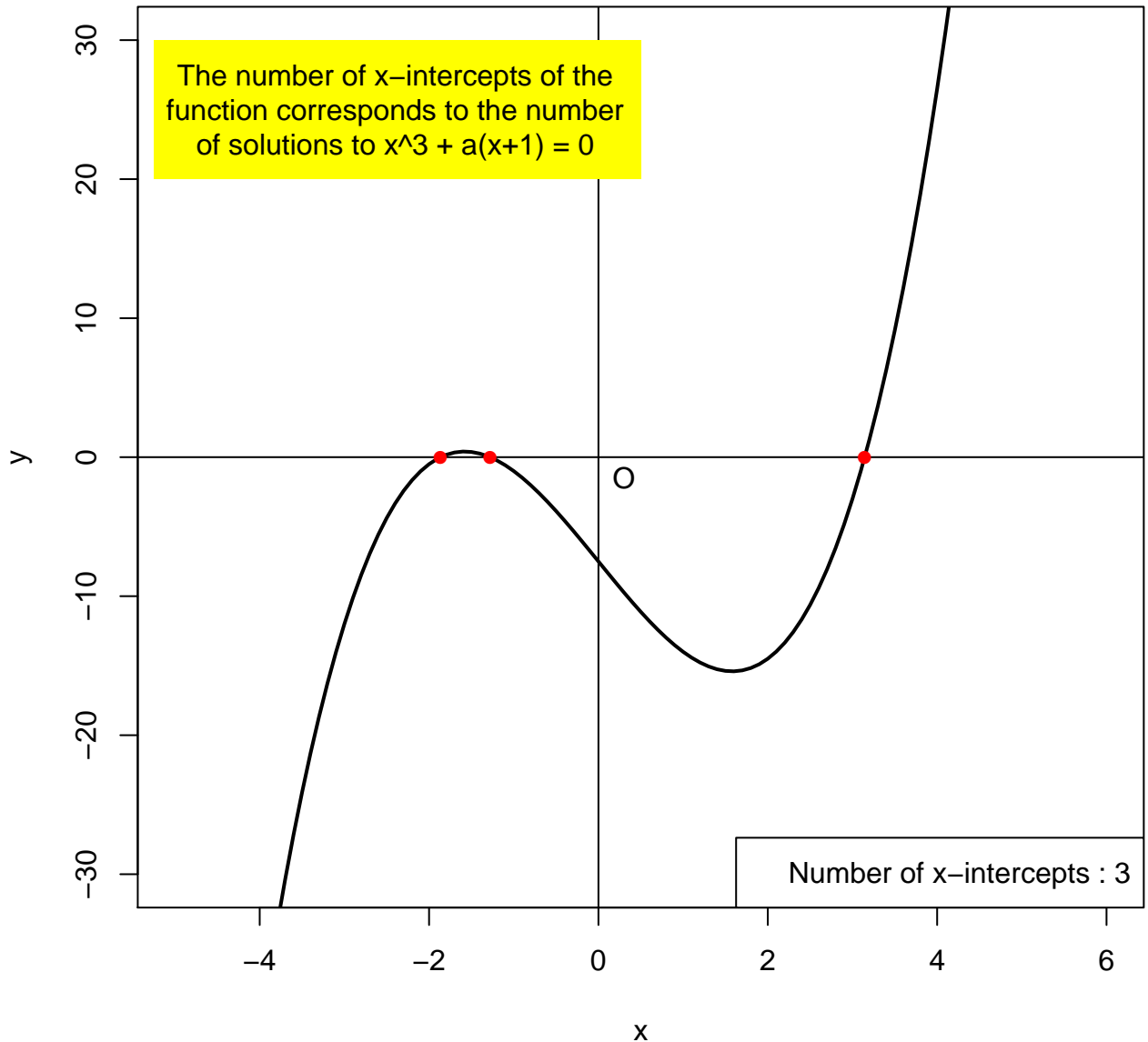
$$a = -7.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



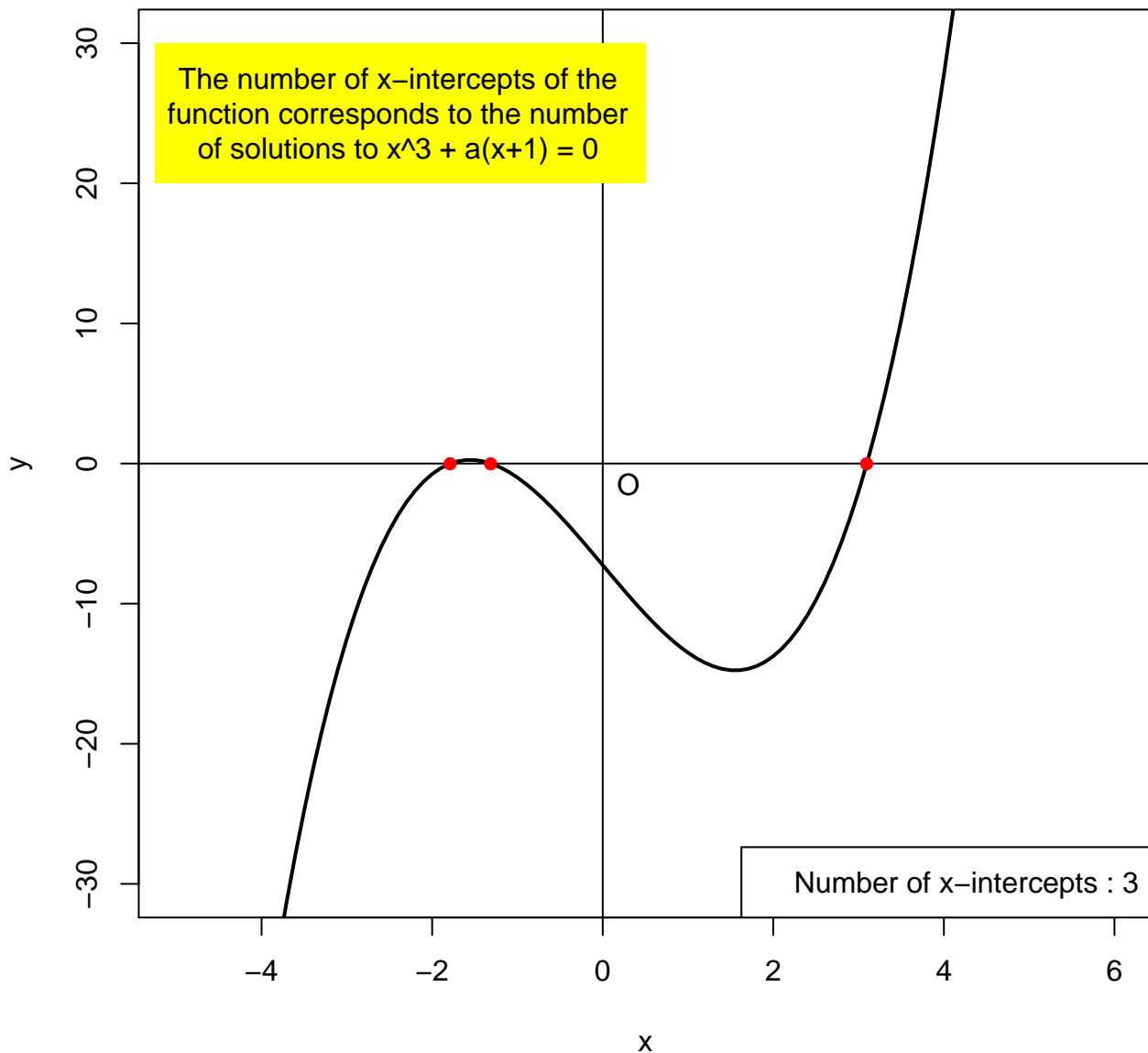
$$a = -7.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



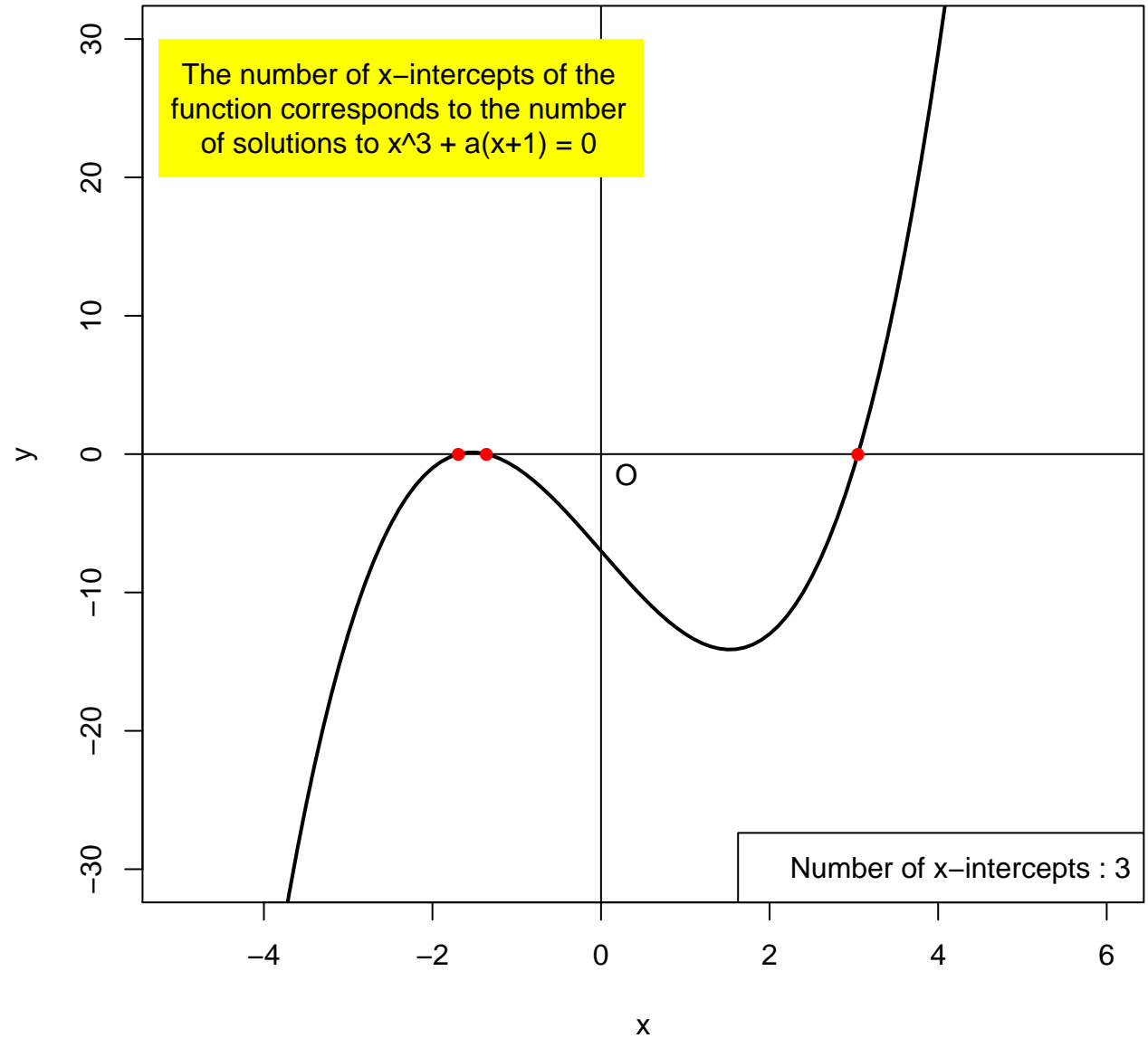
$$a = -7.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -7$$

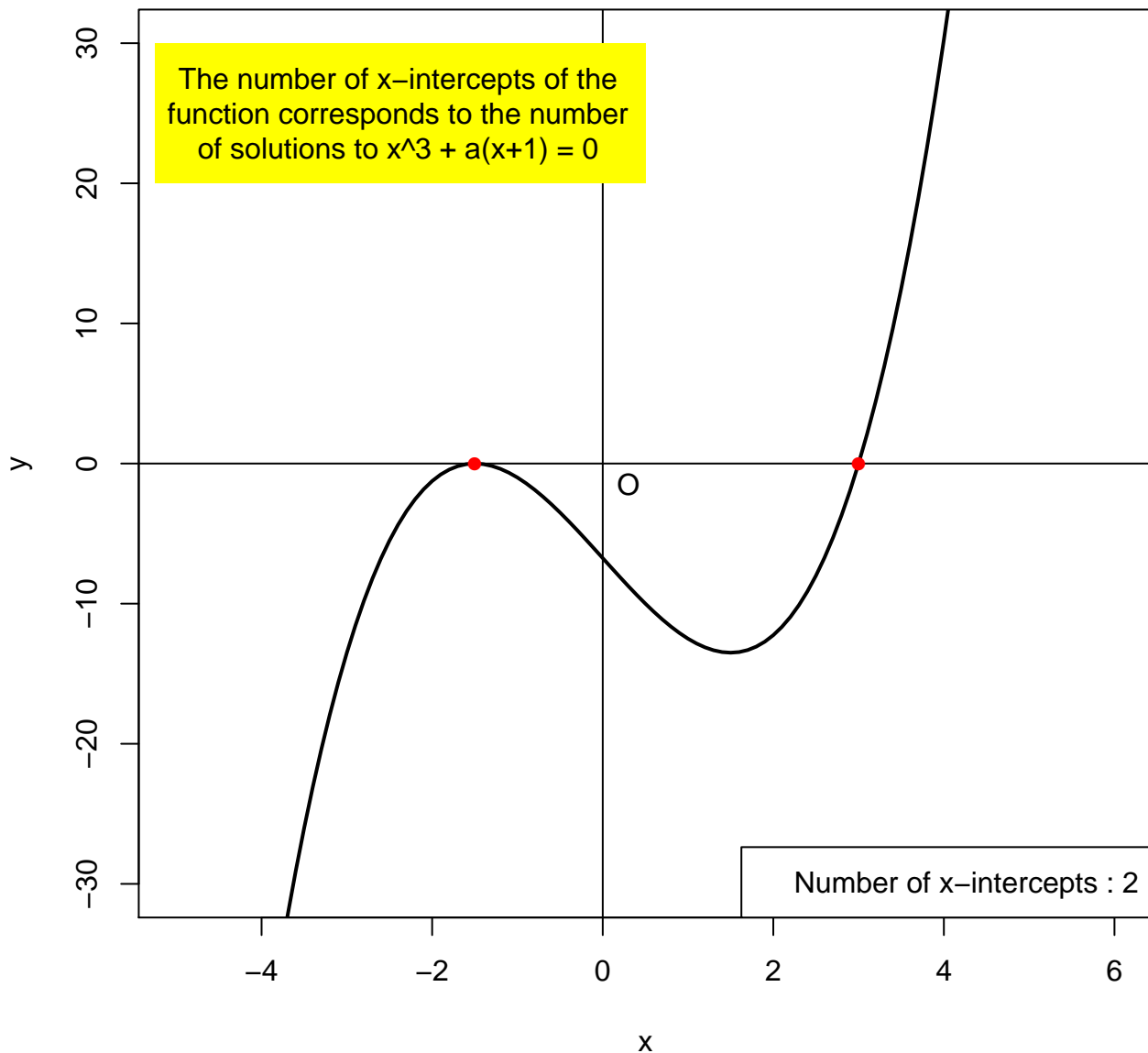
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 3

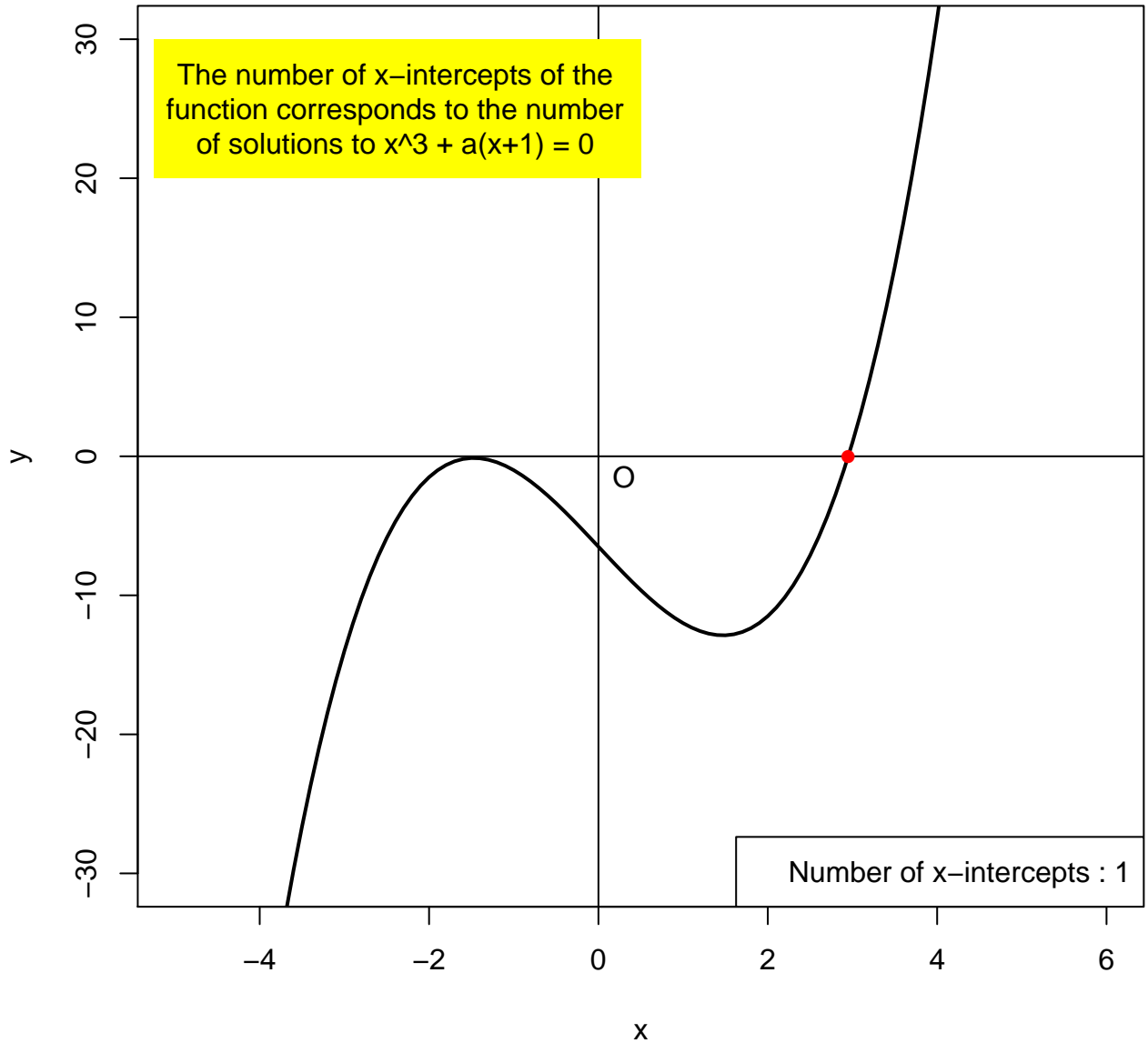
$$a = -6.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -6.5$$

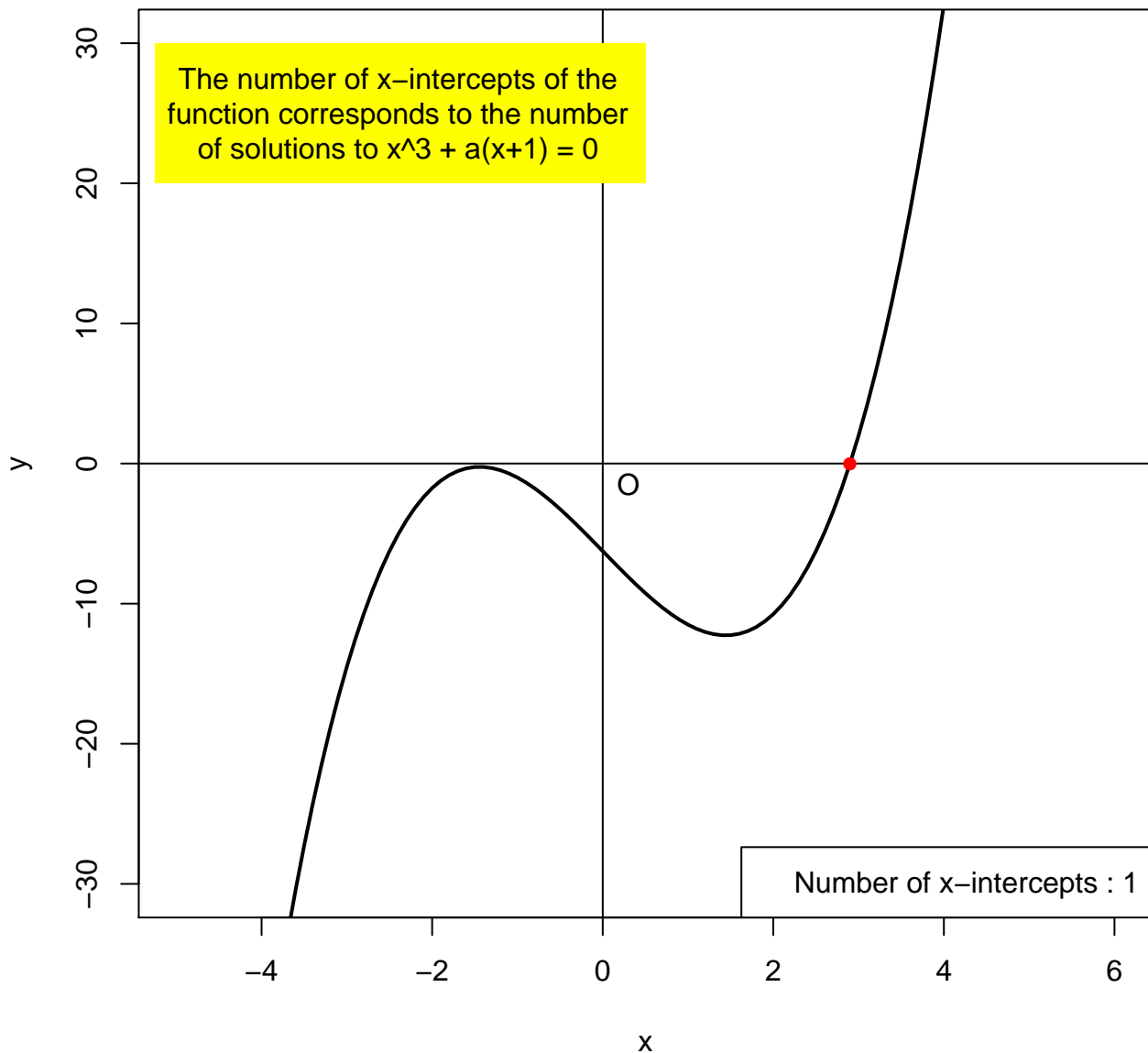
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 1

$$a = -6.25$$

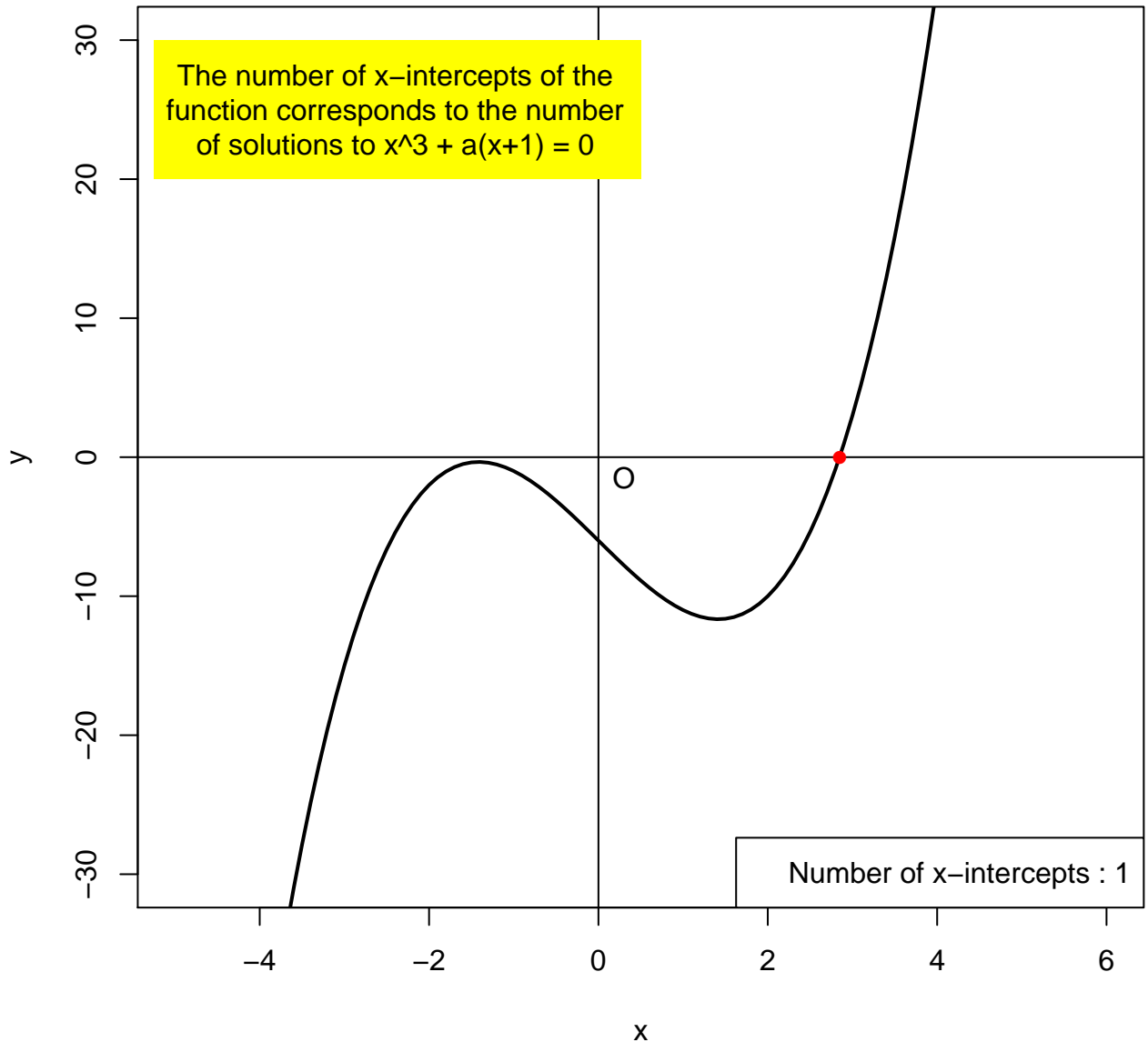
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





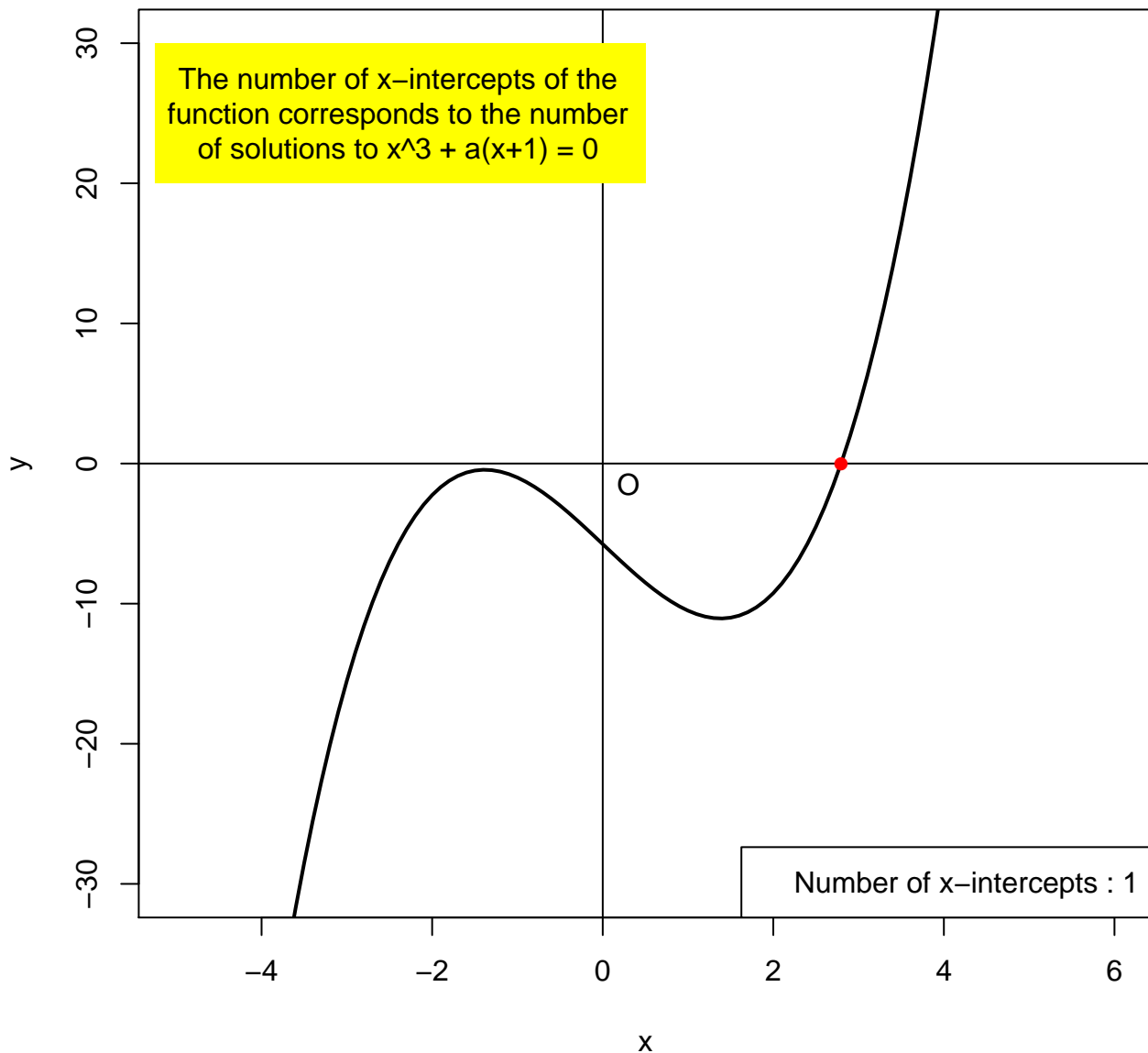
$$a = -6$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



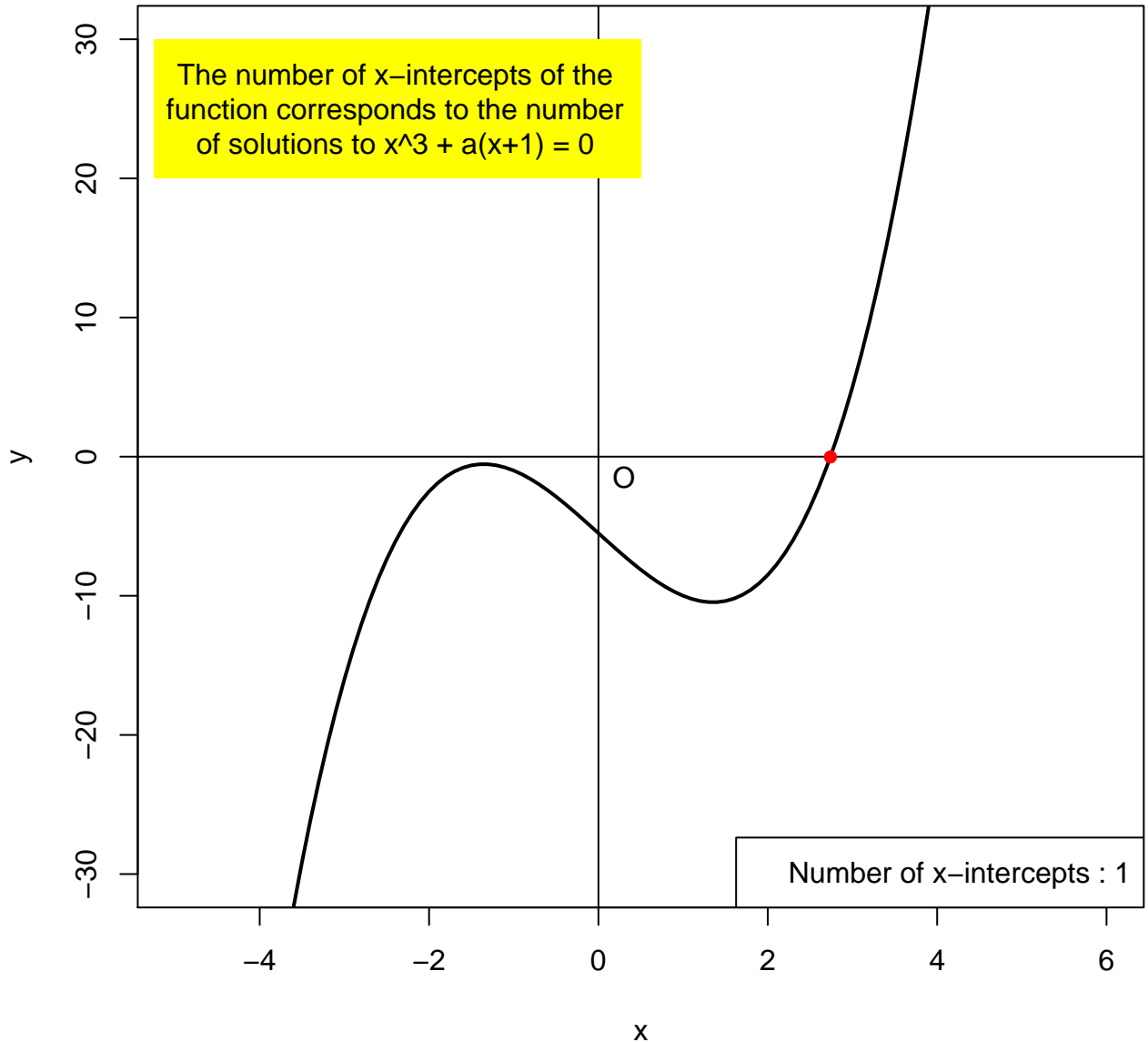
$$a = -5.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



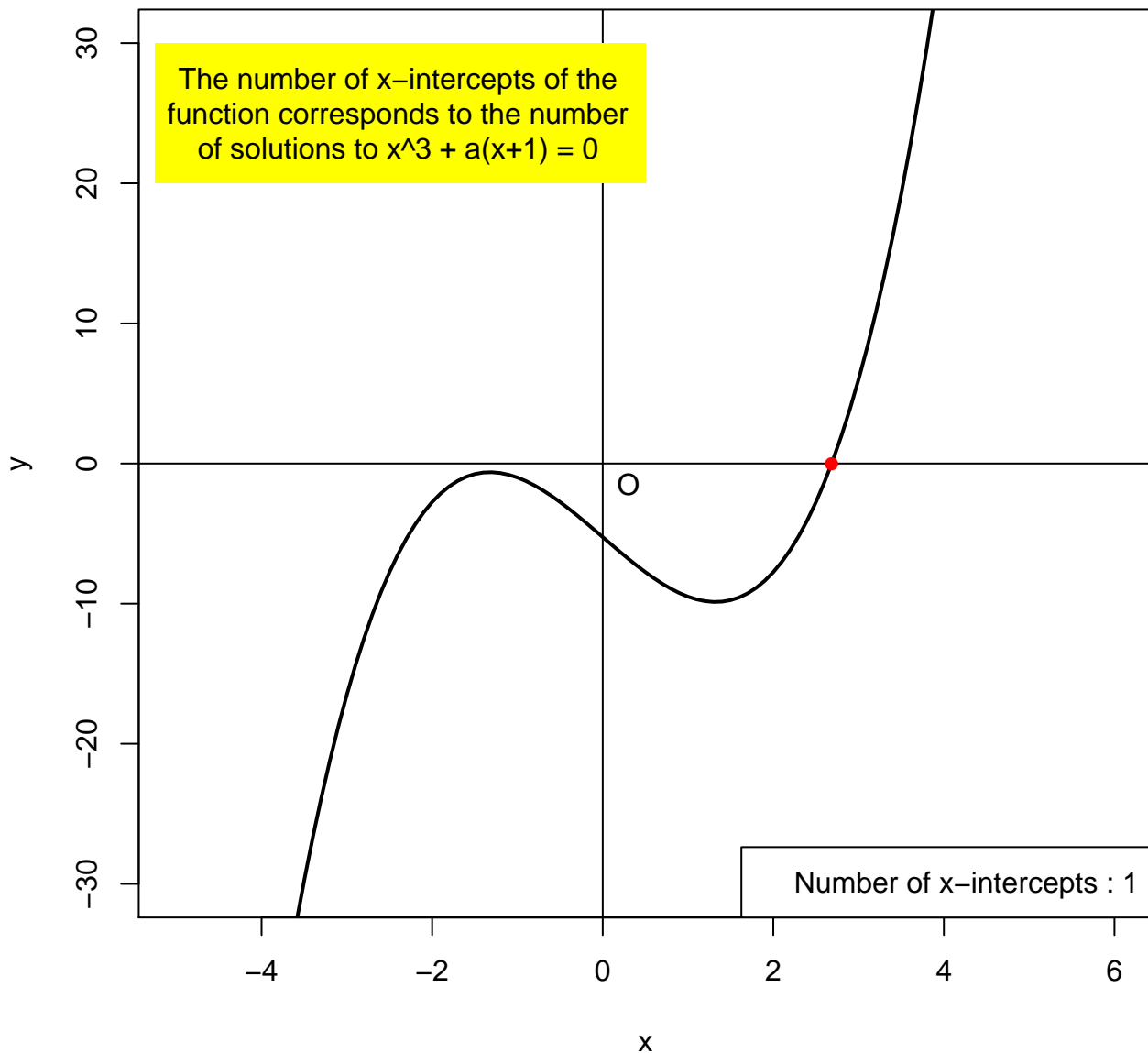
$$a = -5.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -5.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

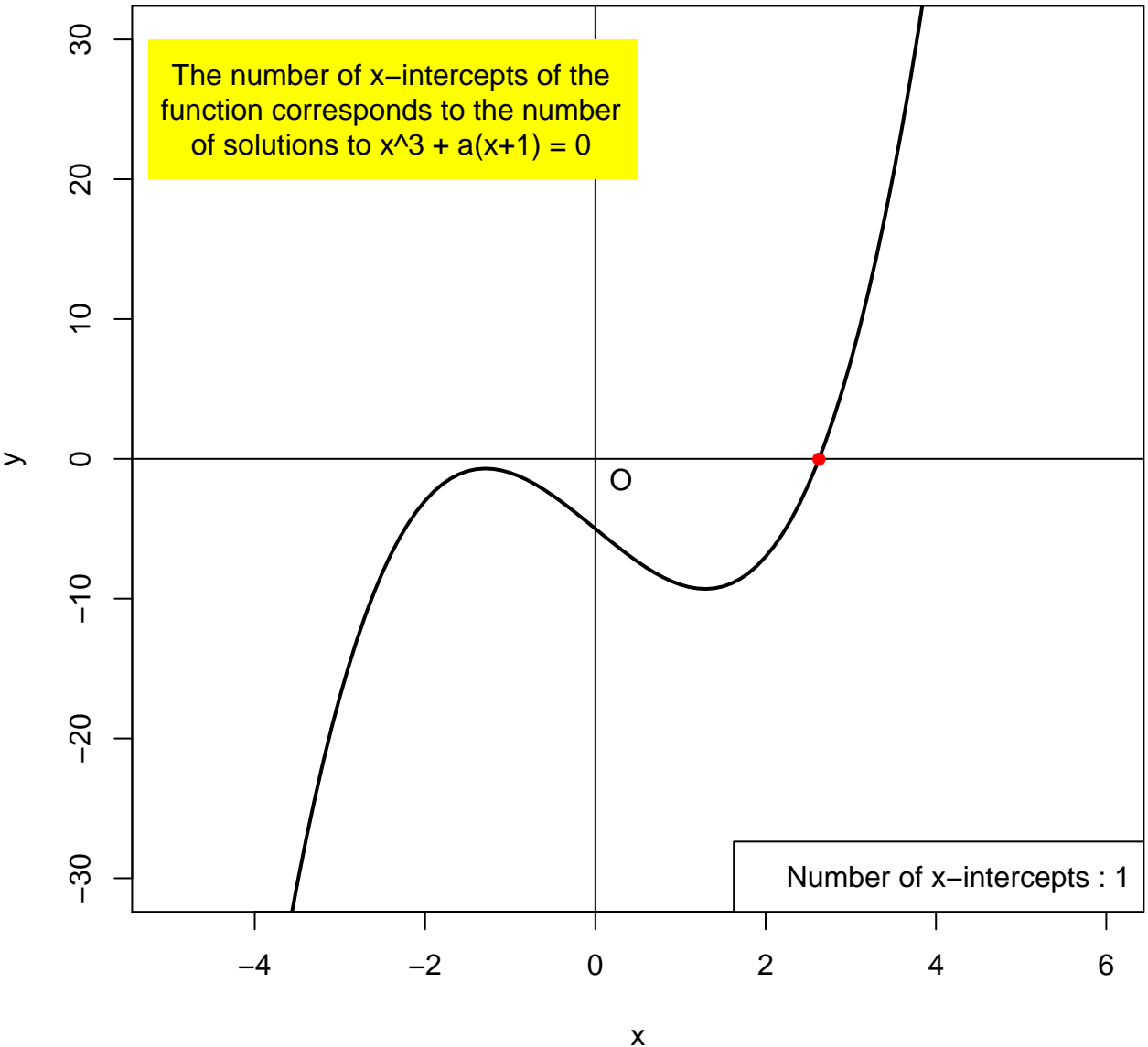


$$a = -5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

O

Number of x-intercepts : 1

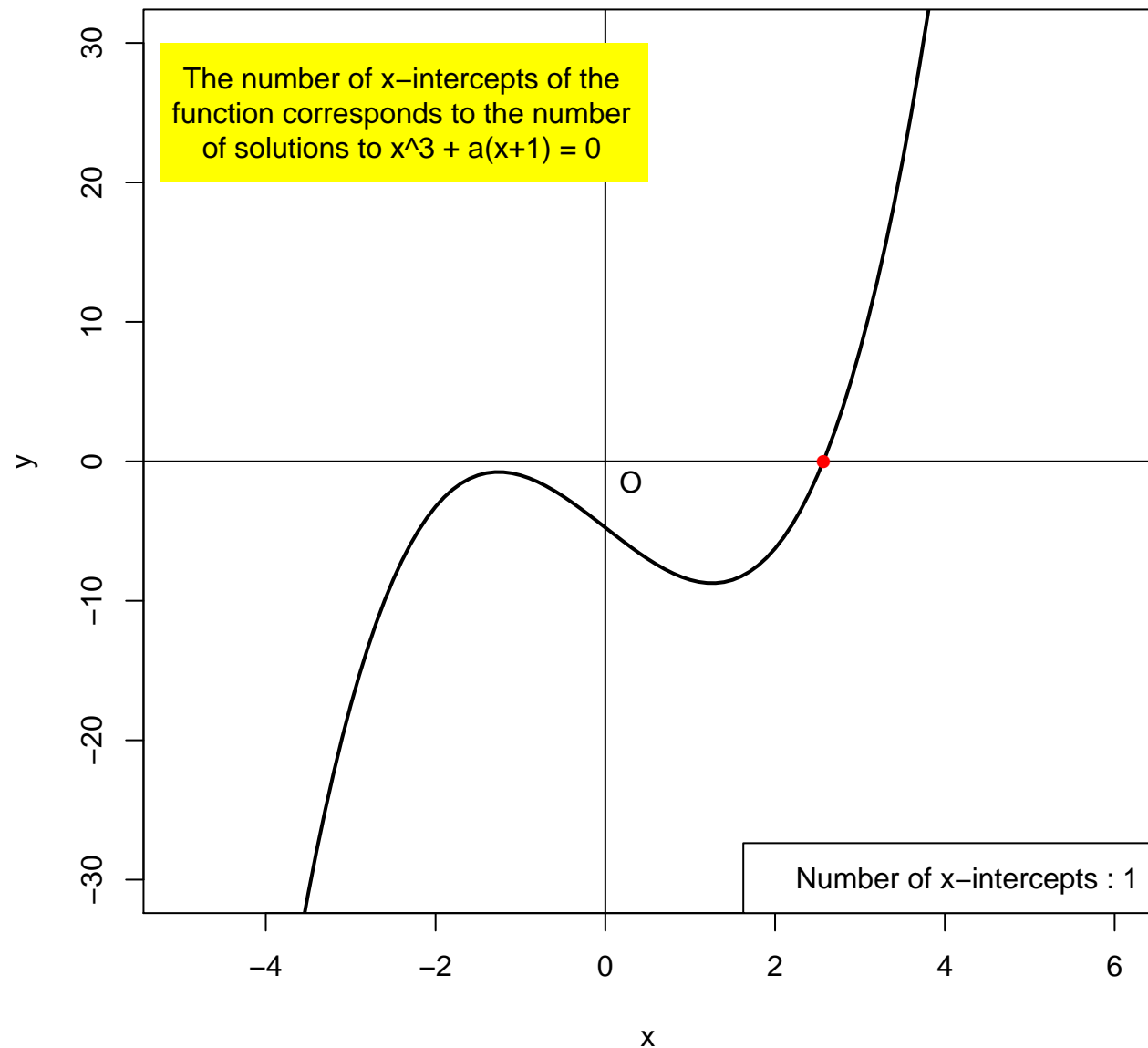


$$a = -4.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

O

Number of x-intercepts : 1

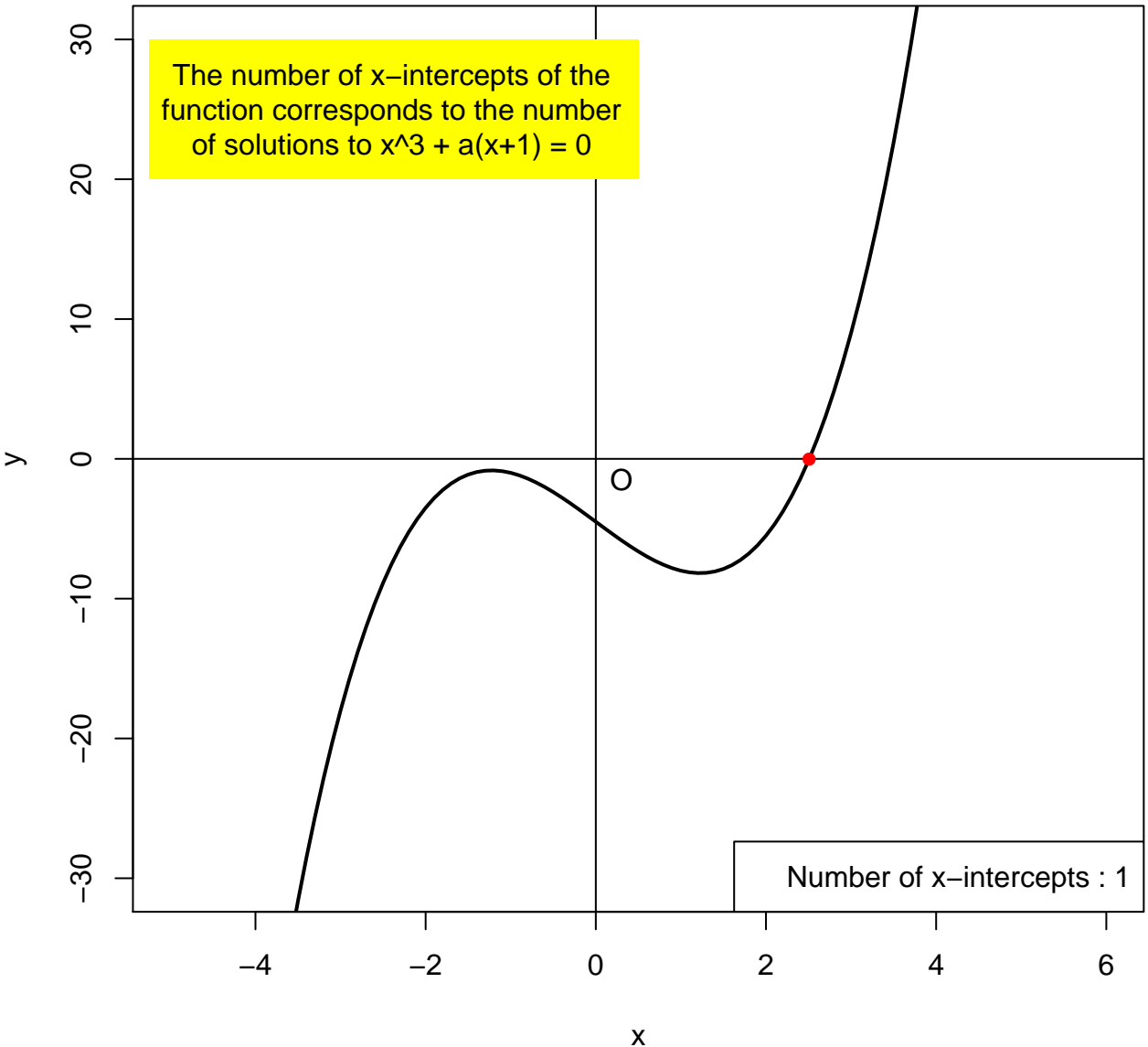


$$a = -4.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

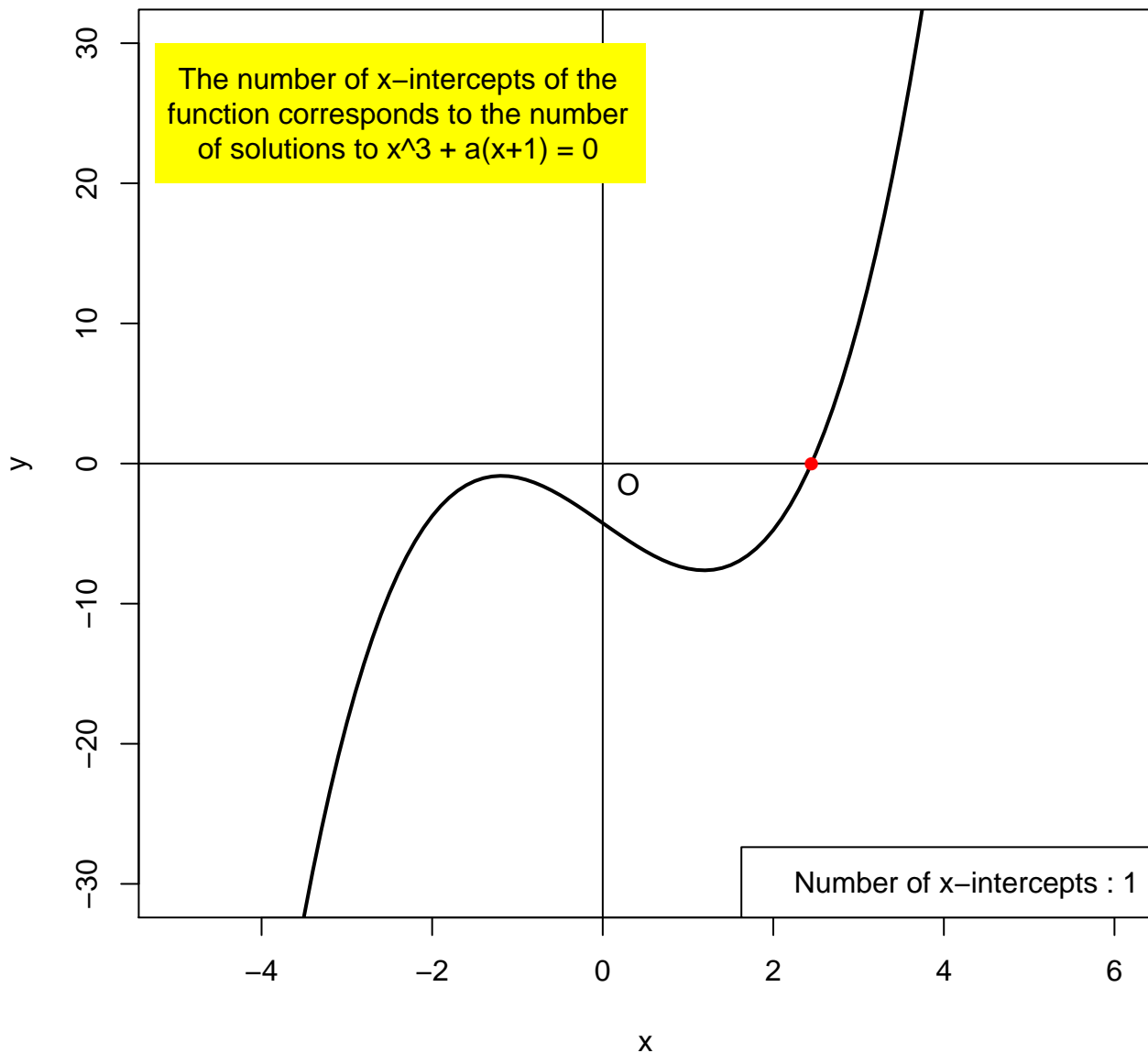
O

Number of x-intercepts : 1



$$a = -4.25$$

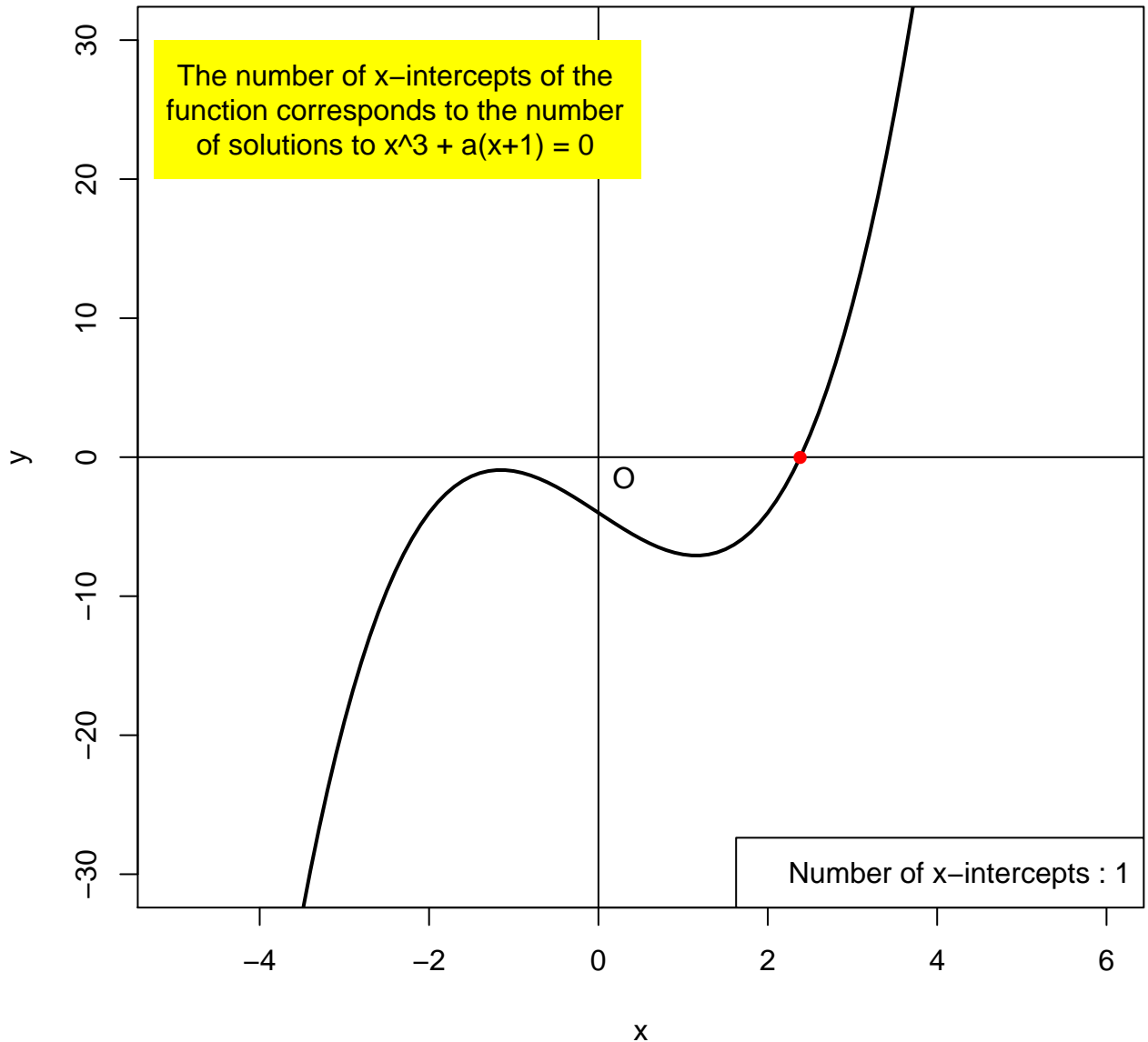
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





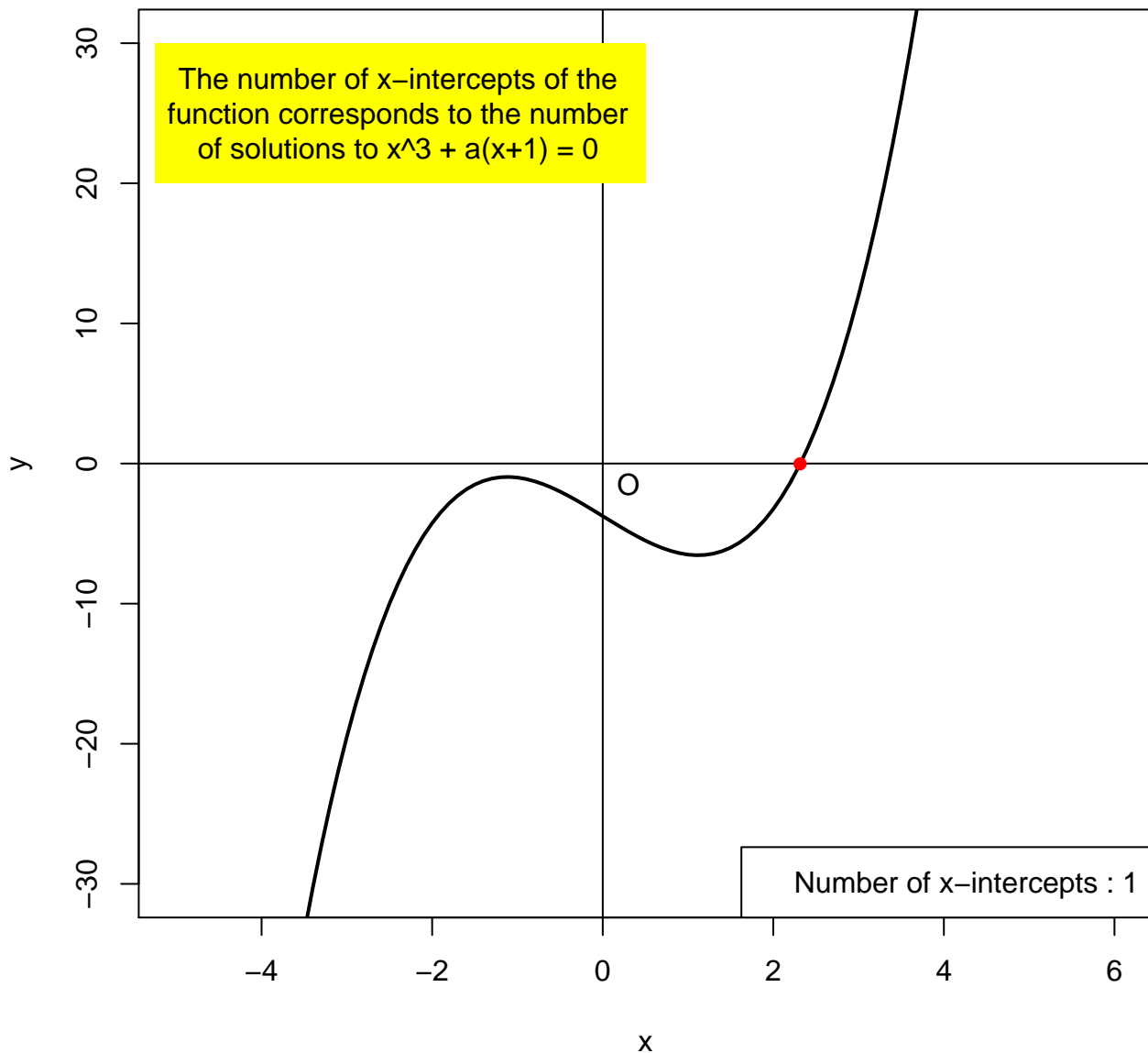
$$a = -4$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



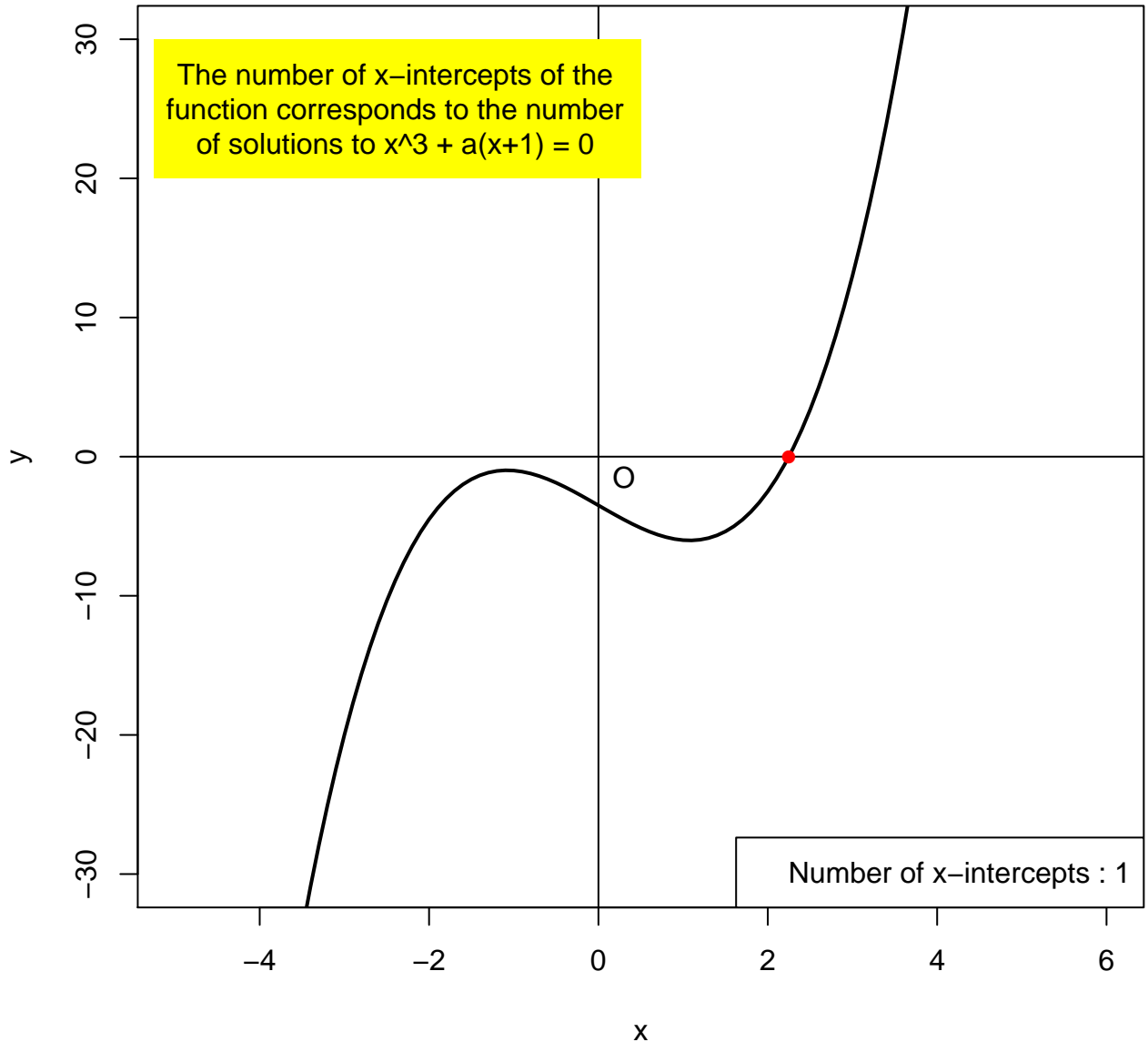
$$a = -3.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



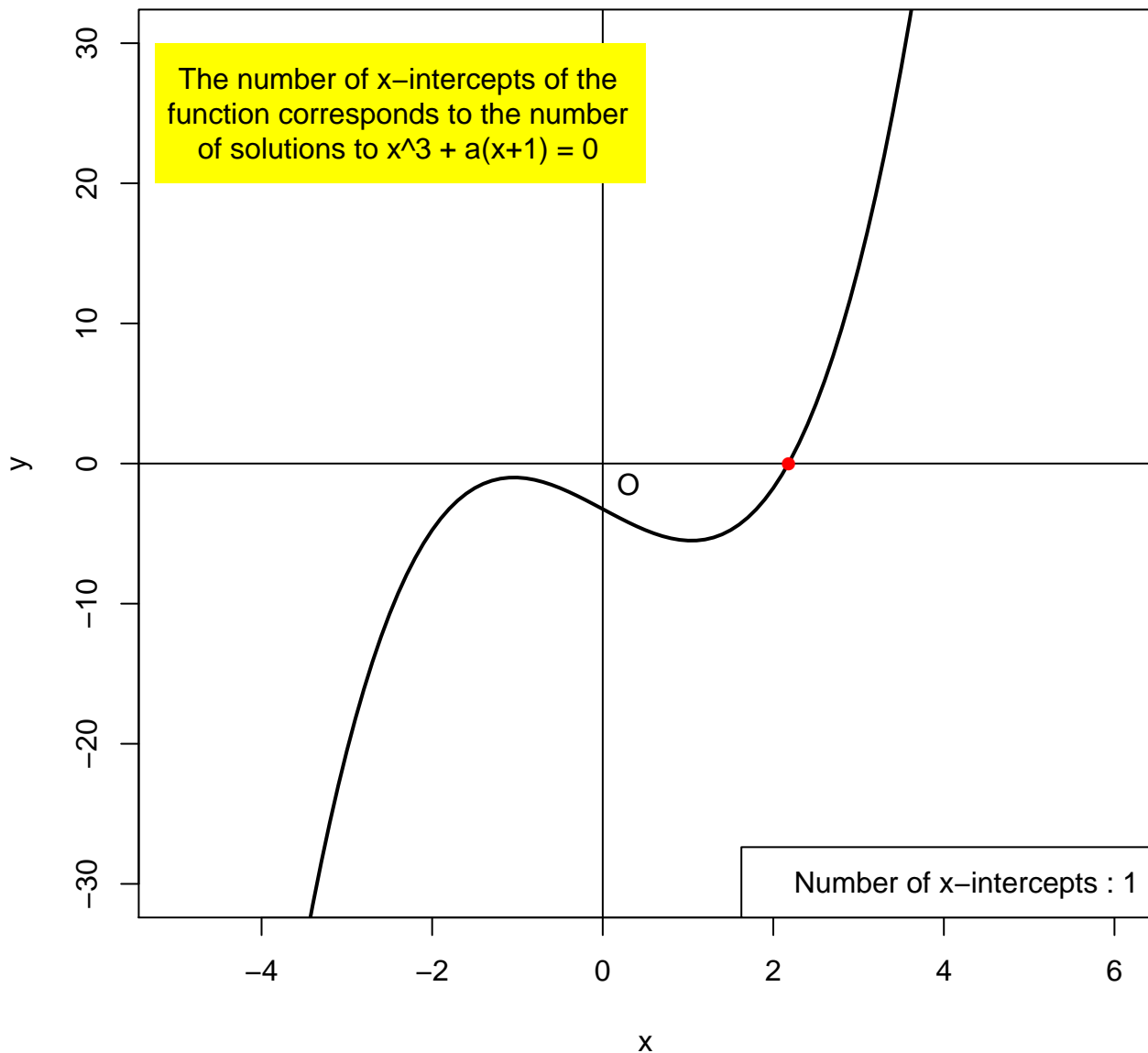
$$a = -3.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



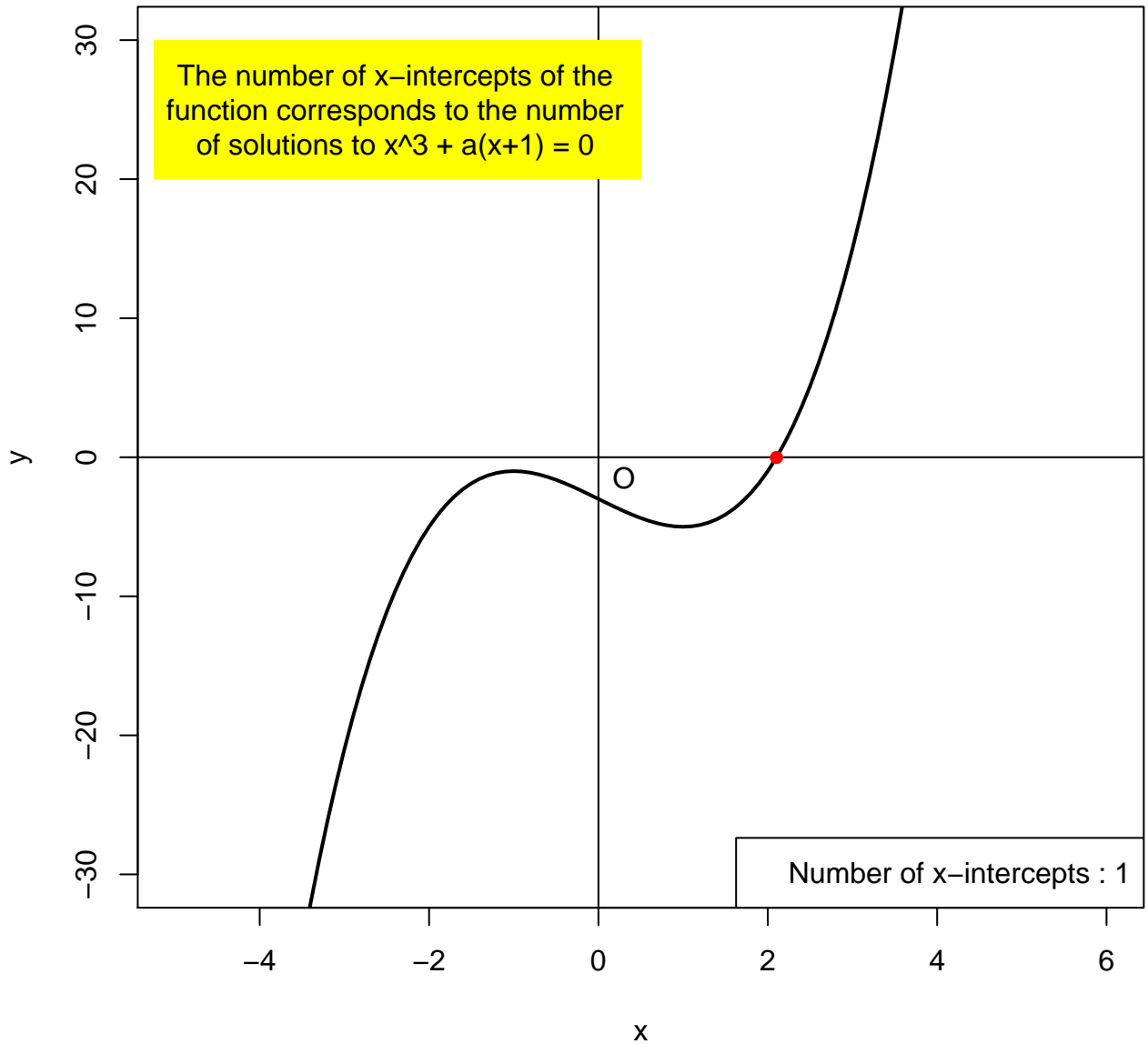
$$a = -3.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



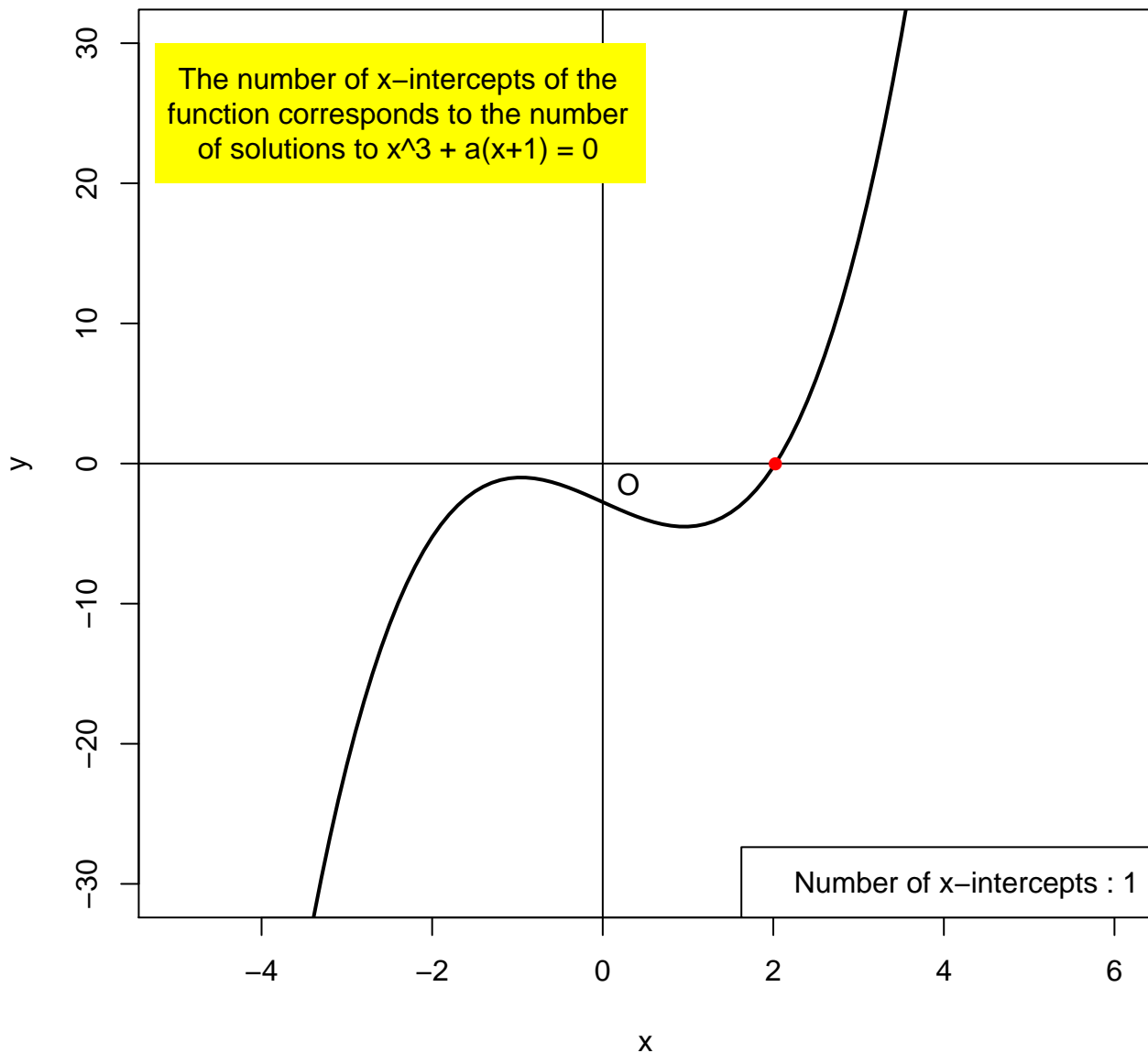
$$a = -3$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -2.75$$

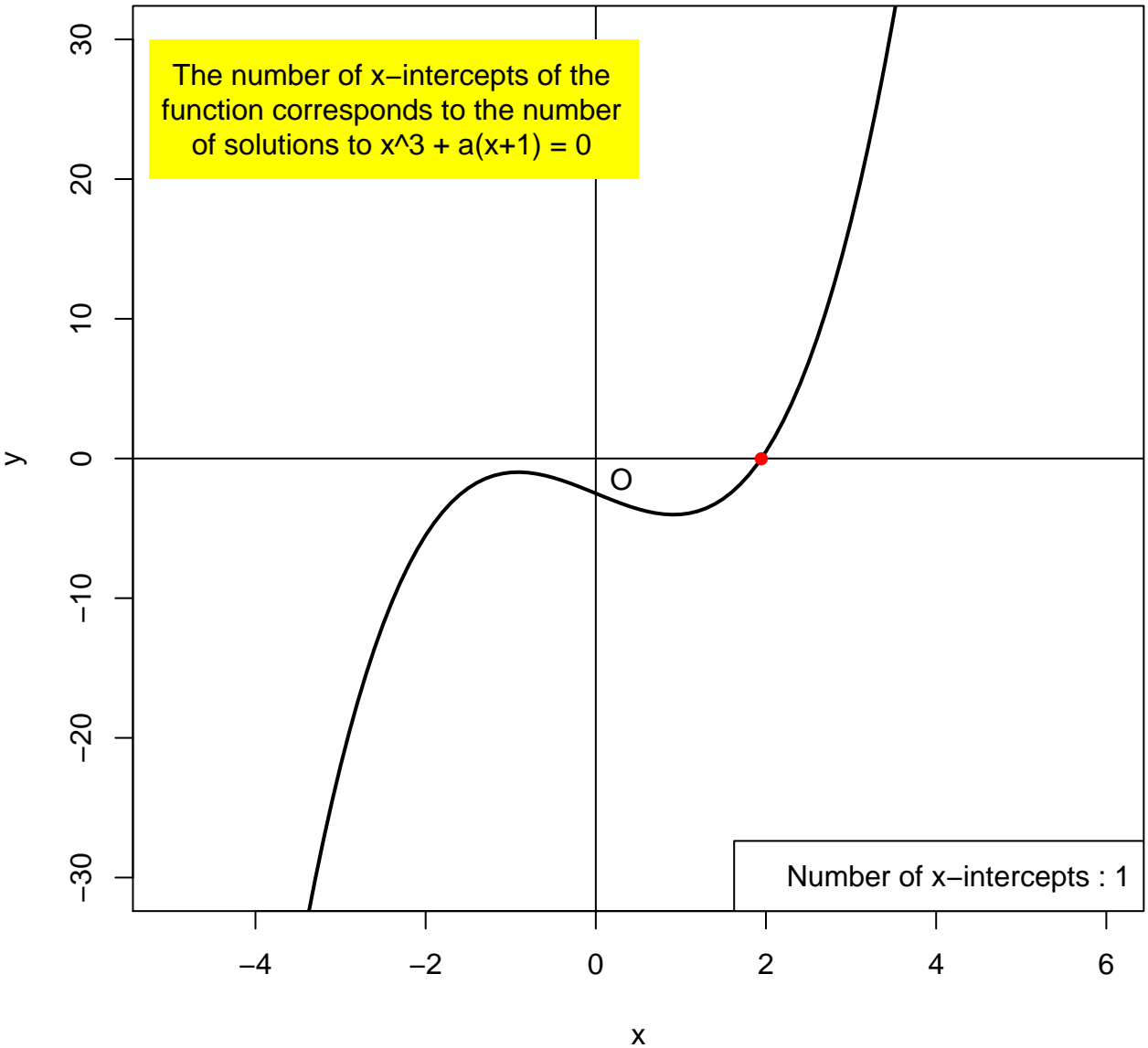
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = -2.5$$

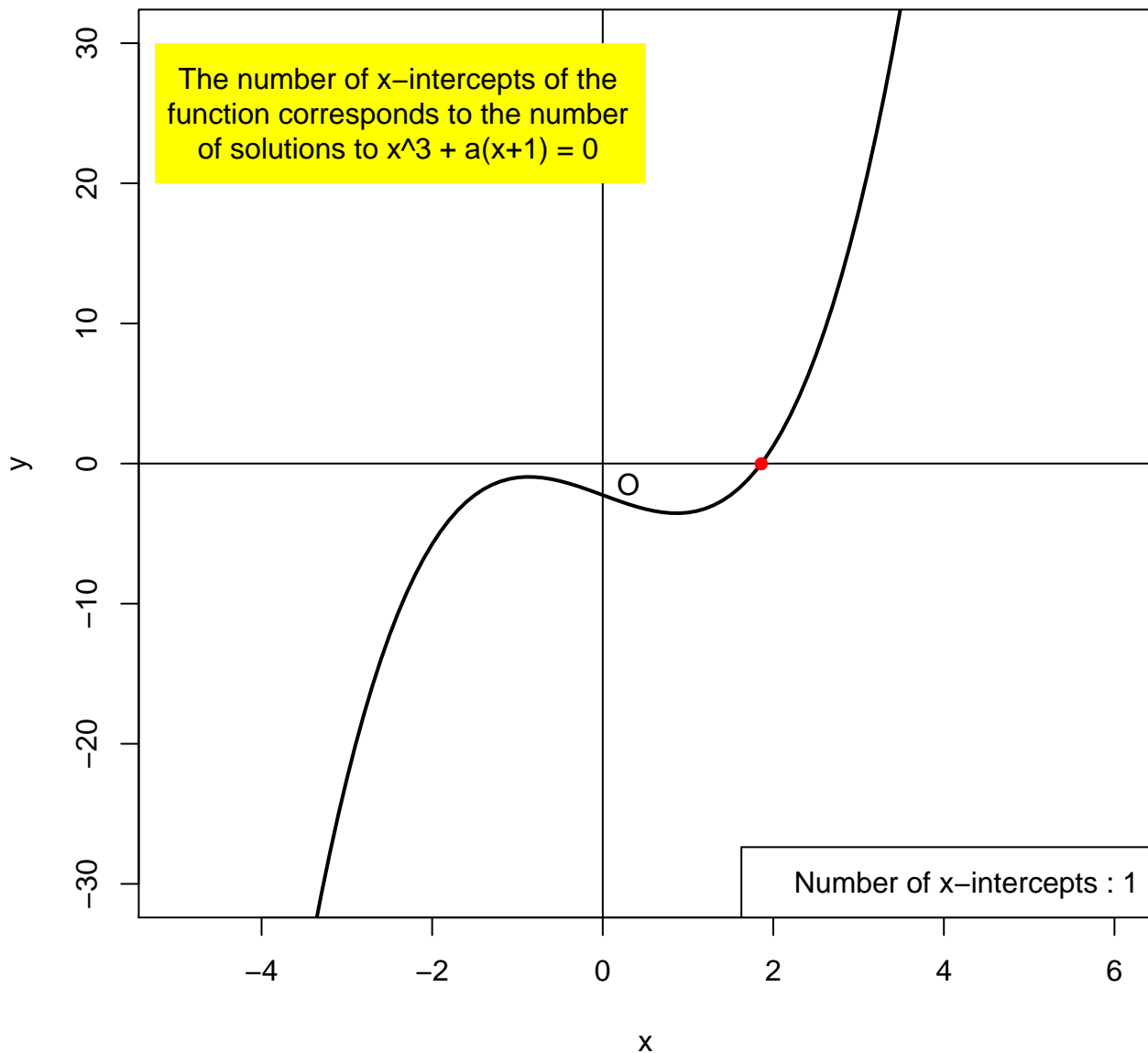
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



$$a = -2.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

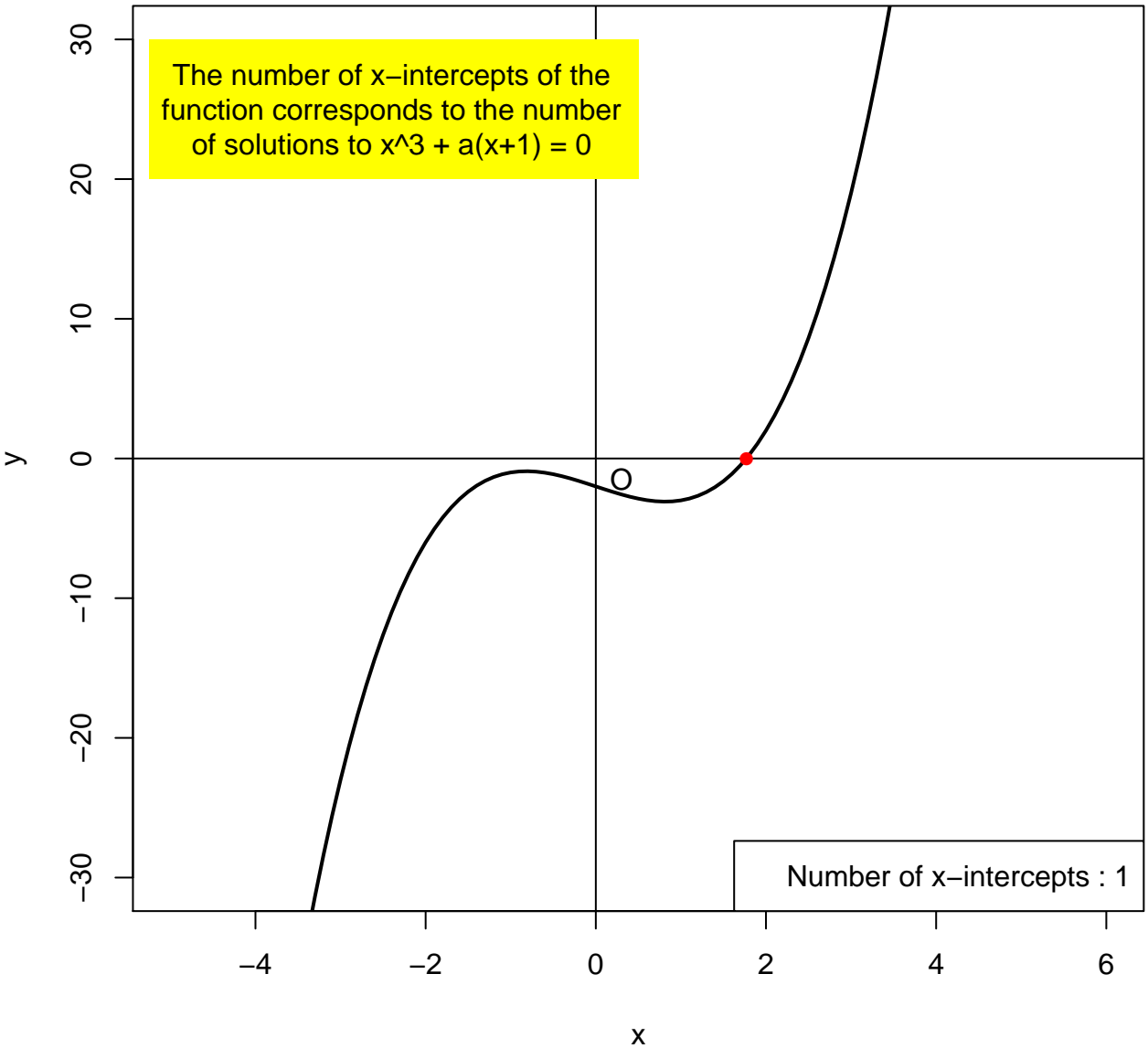




$$a = -2$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

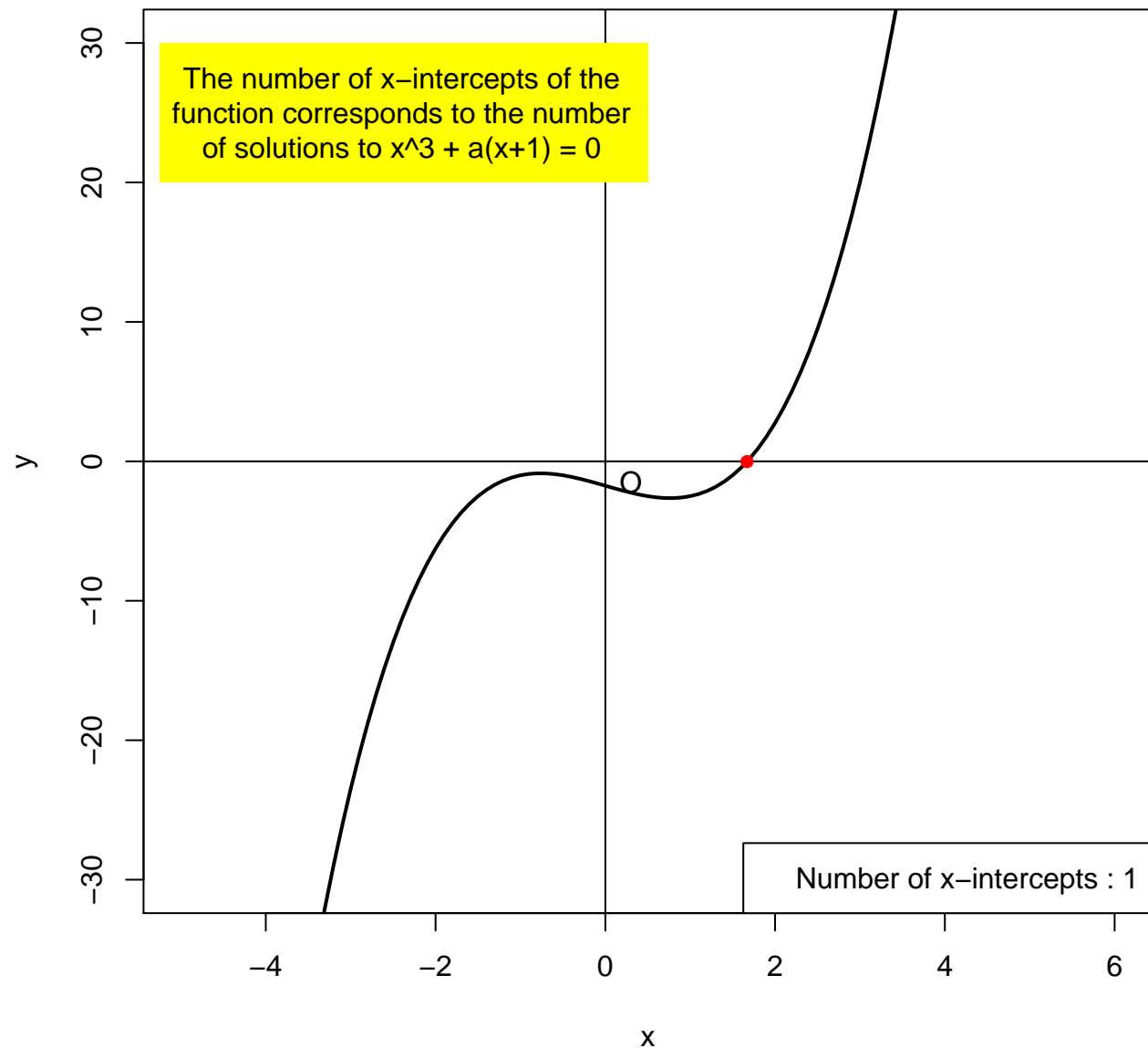
Number of x-intercepts : 1



$$a = -1.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

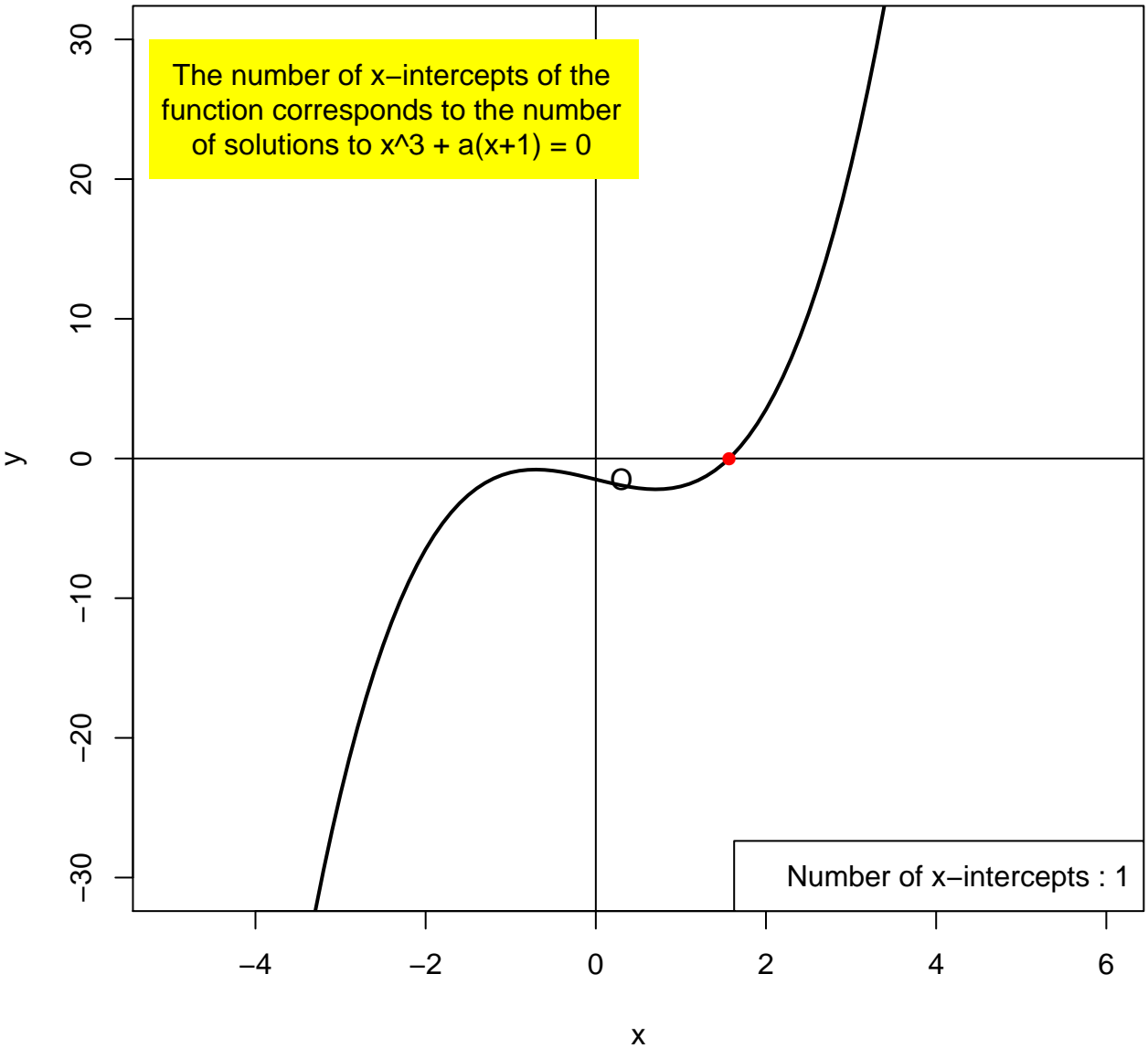
Number of x-intercepts : 1



$$a = -1.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

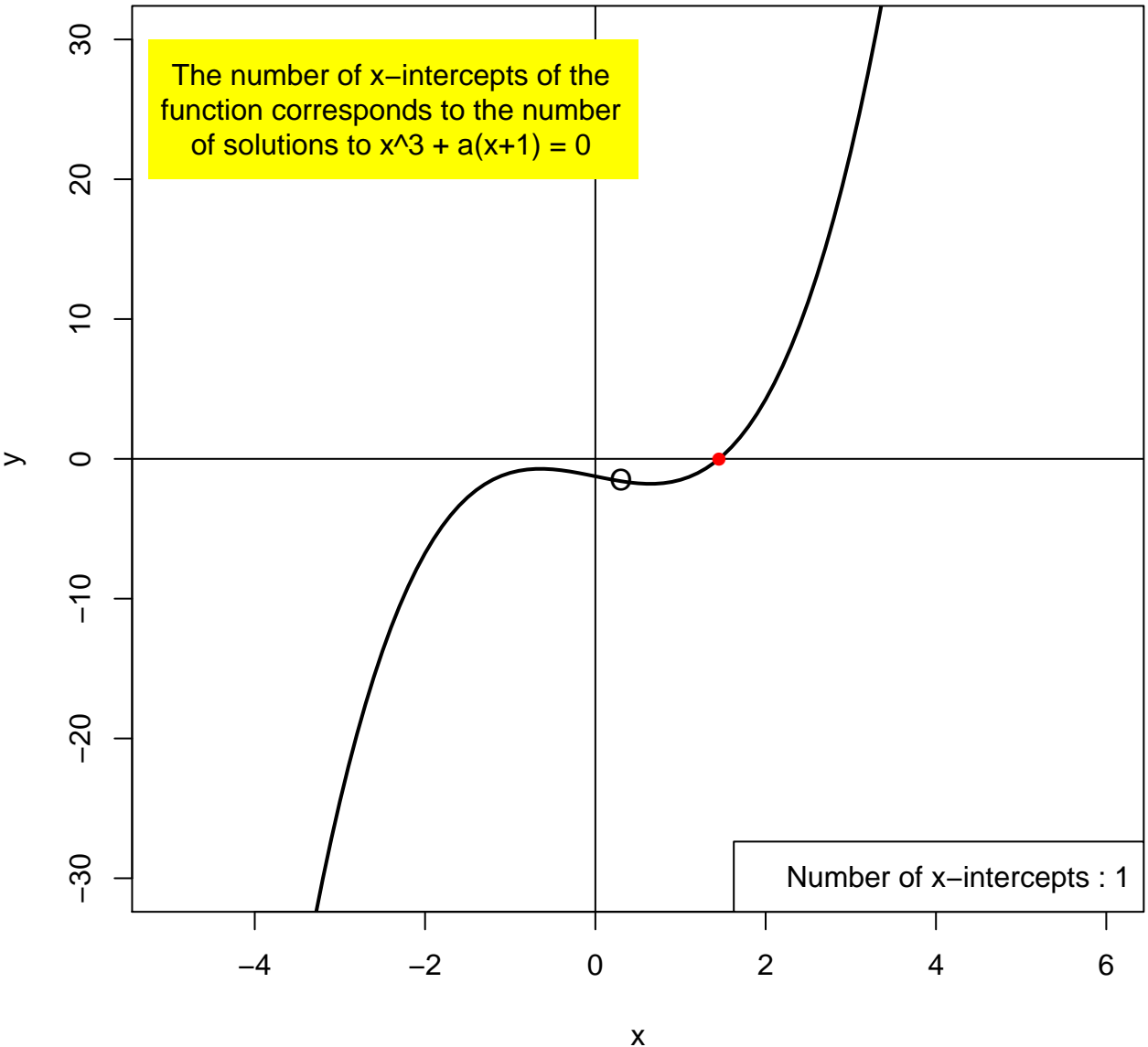
Number of x-intercepts : 1



$$a = -1.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

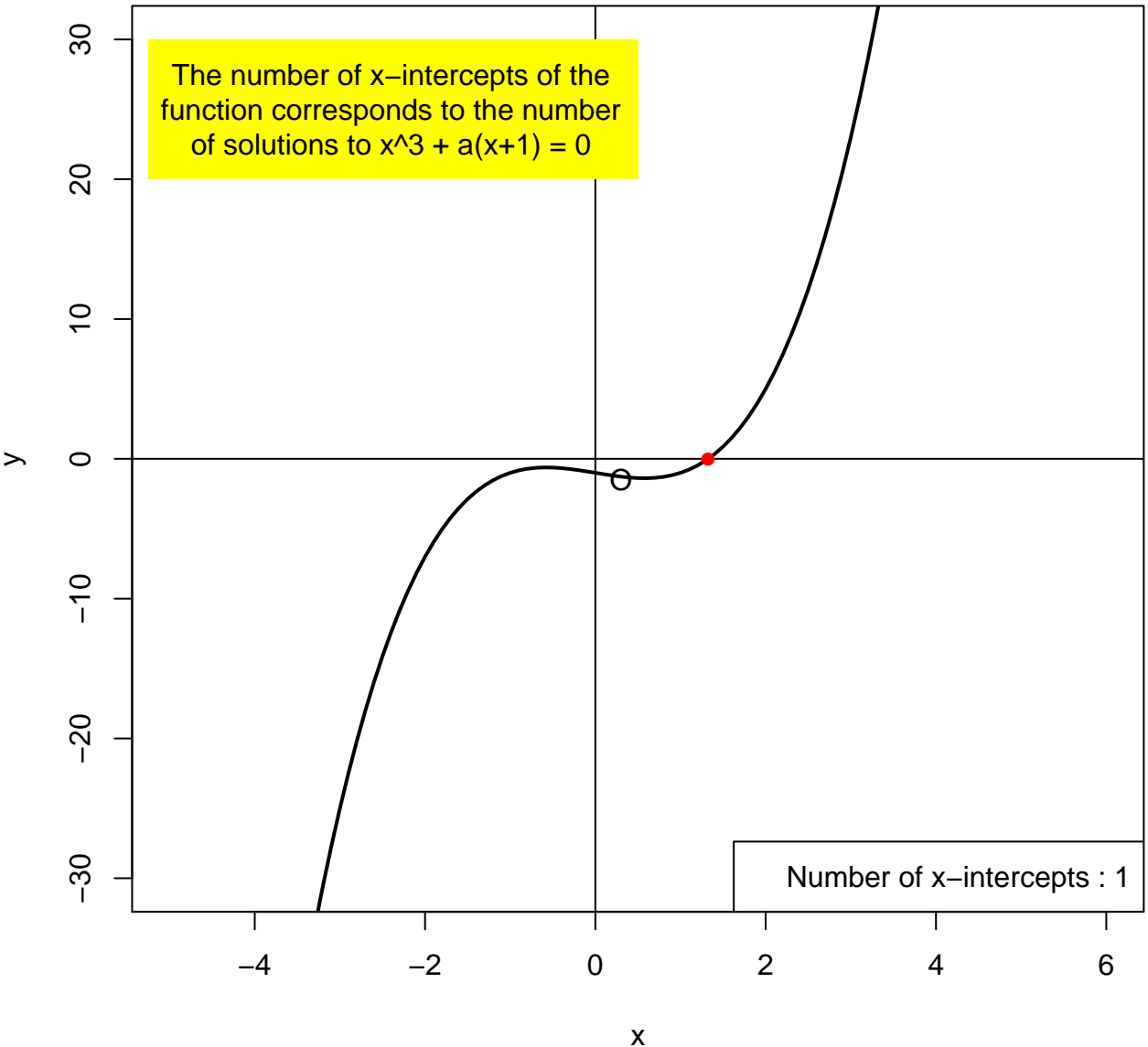
Number of x-intercepts : 1



**$a = -1$**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

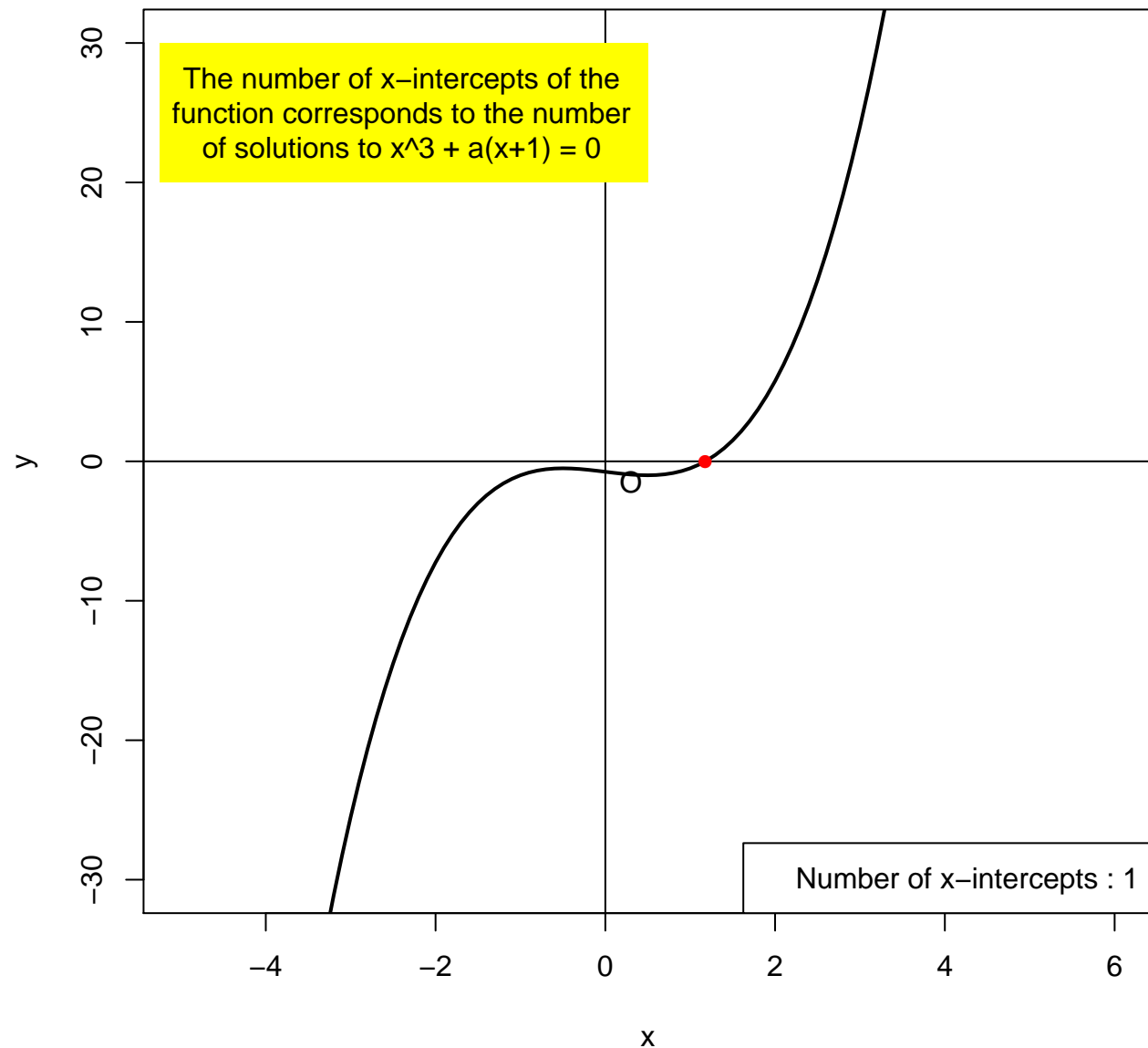
Number of x-intercepts : 1



$$a = -0.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

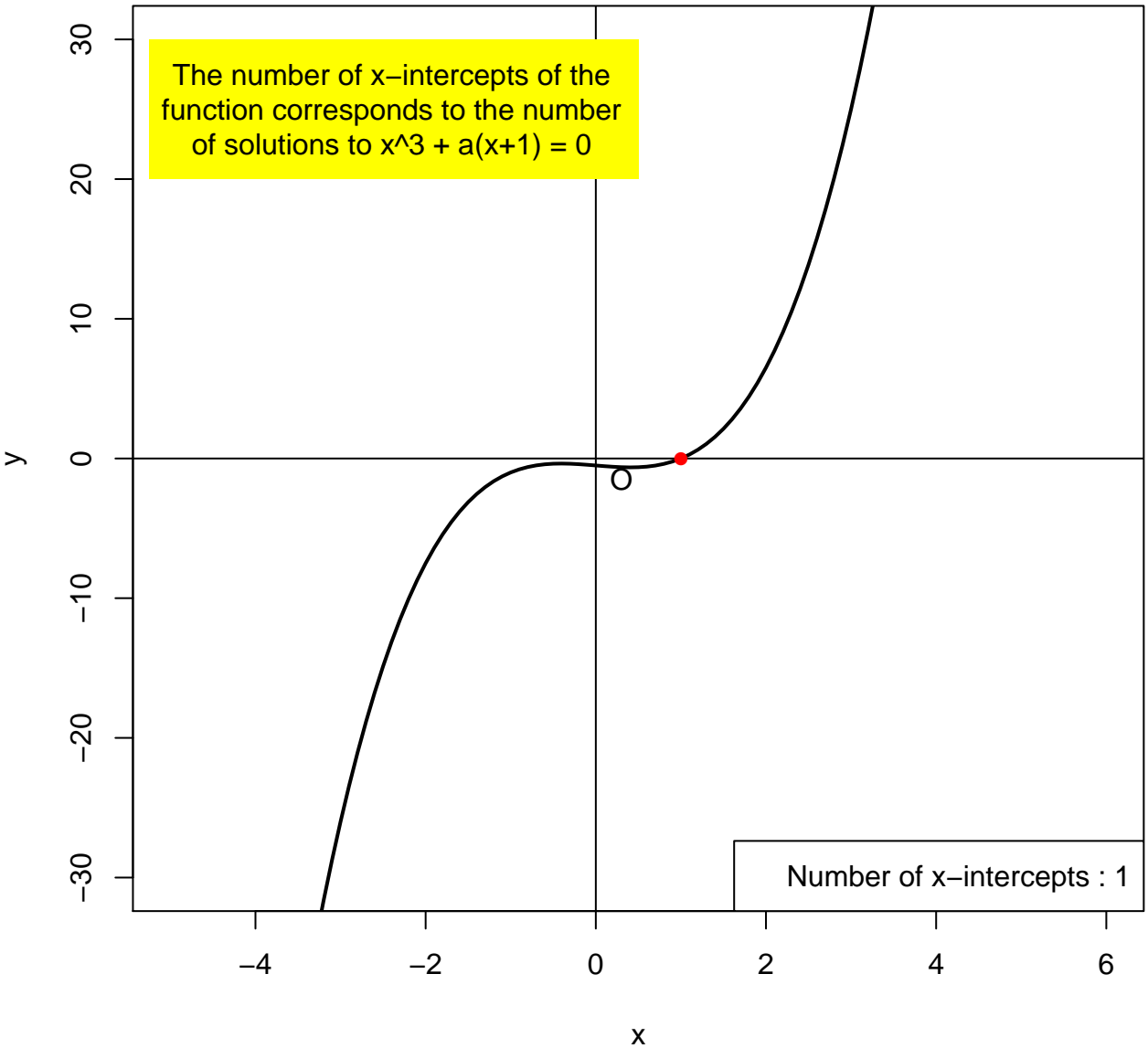
Number of x-intercepts : 1



$$a = -0.5$$

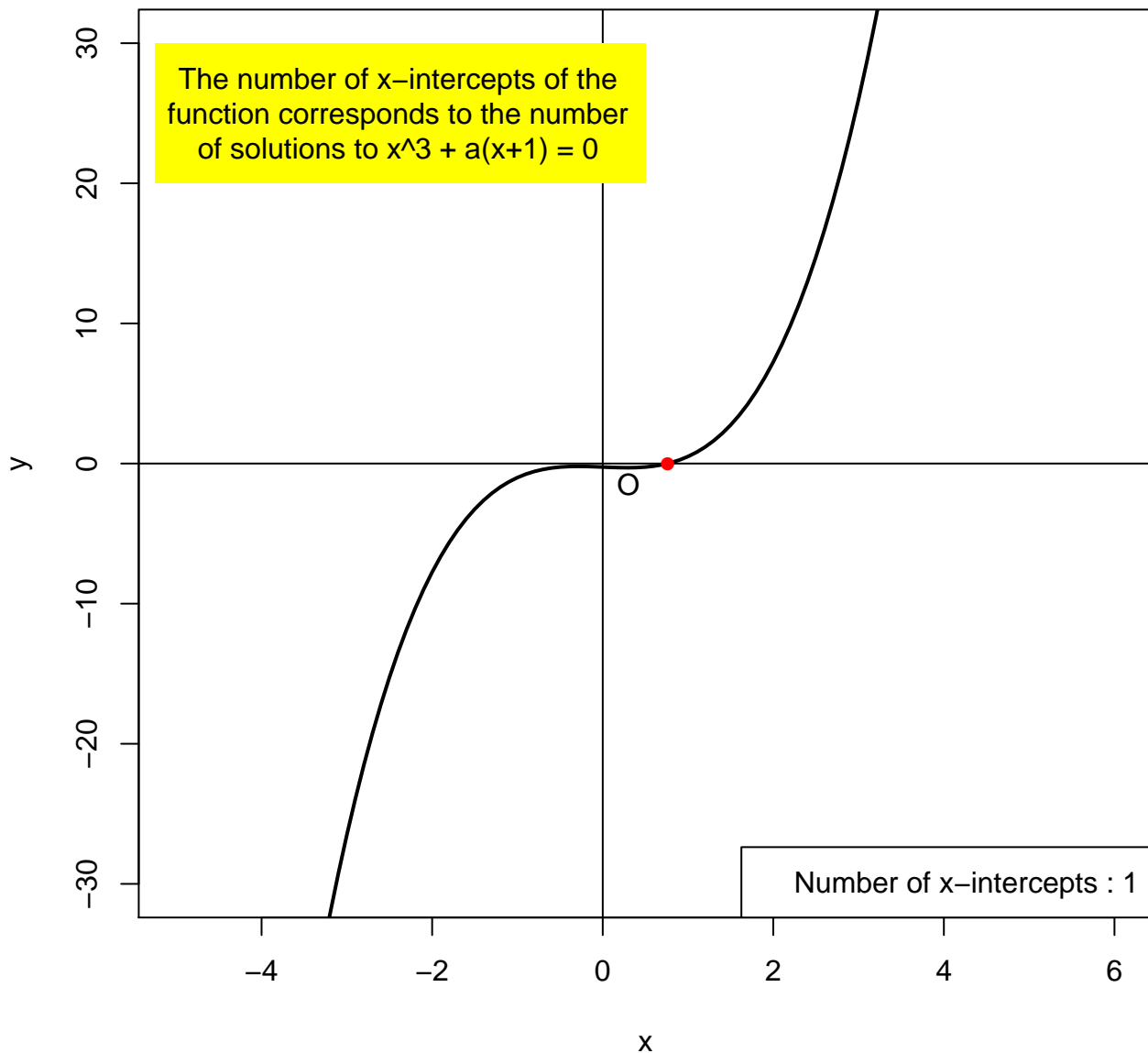
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



$$a = -0.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



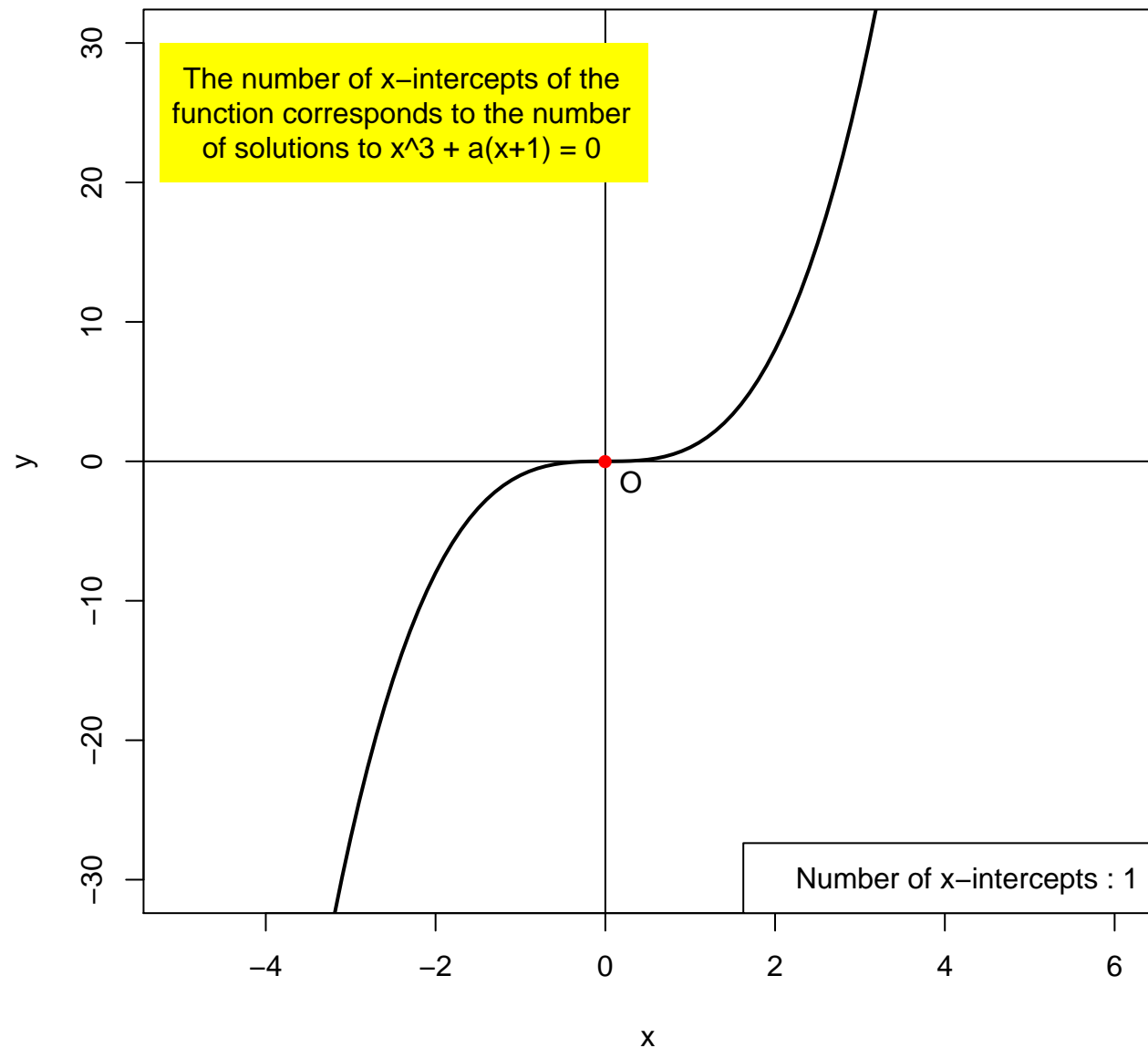


**a = 0**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

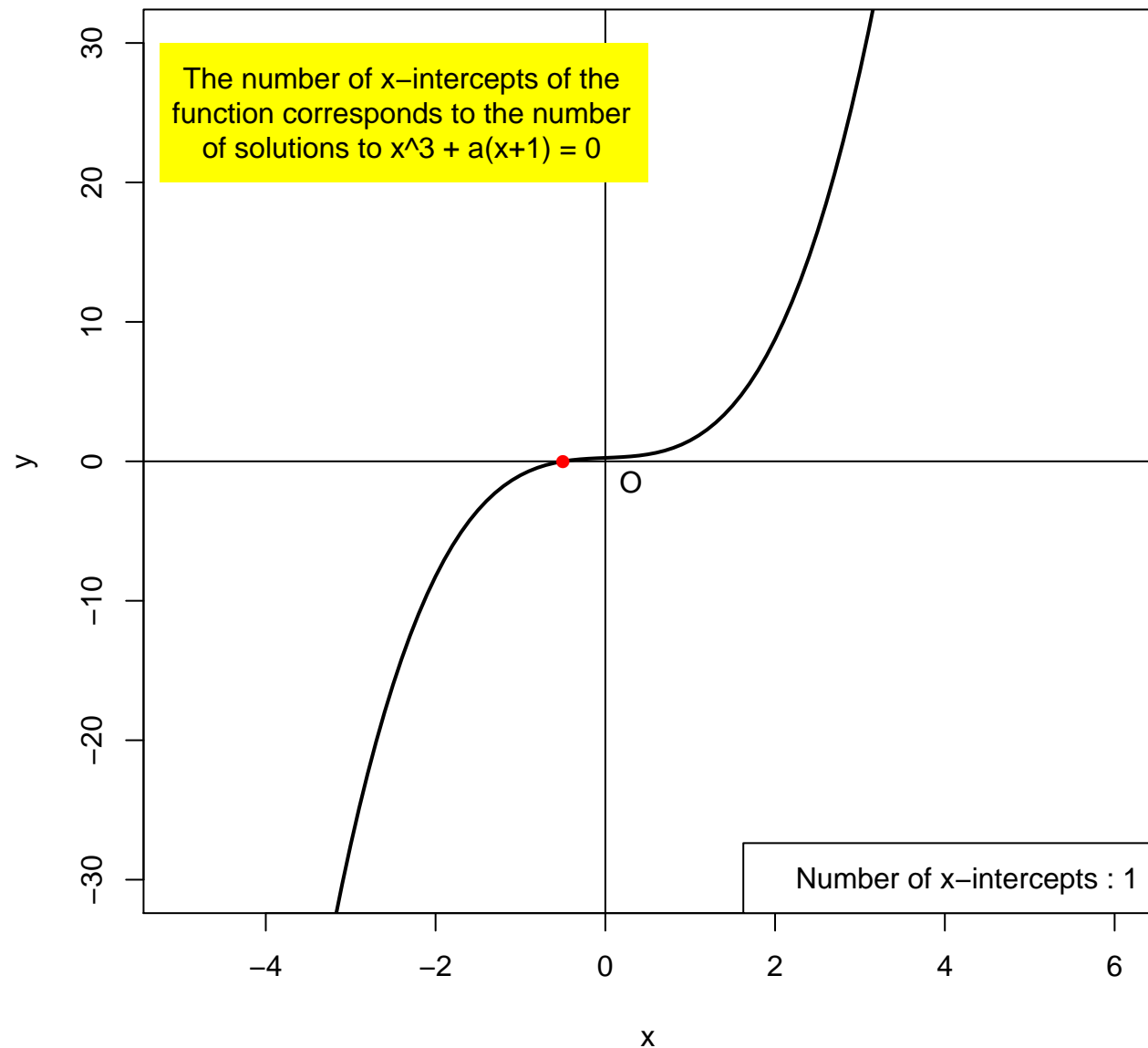
O

Number of x-intercepts : 1



$$a = 0.25$$

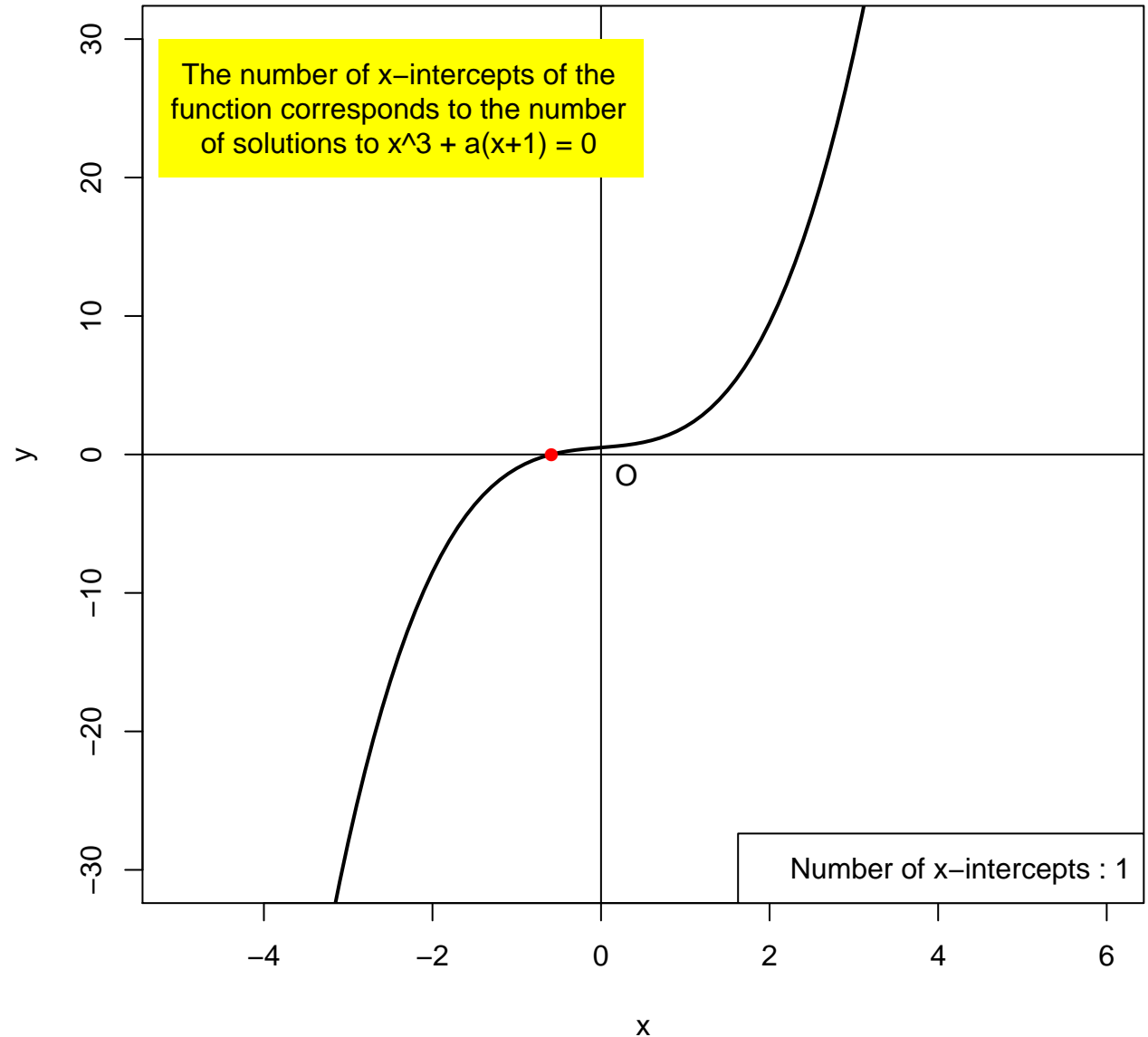
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 1

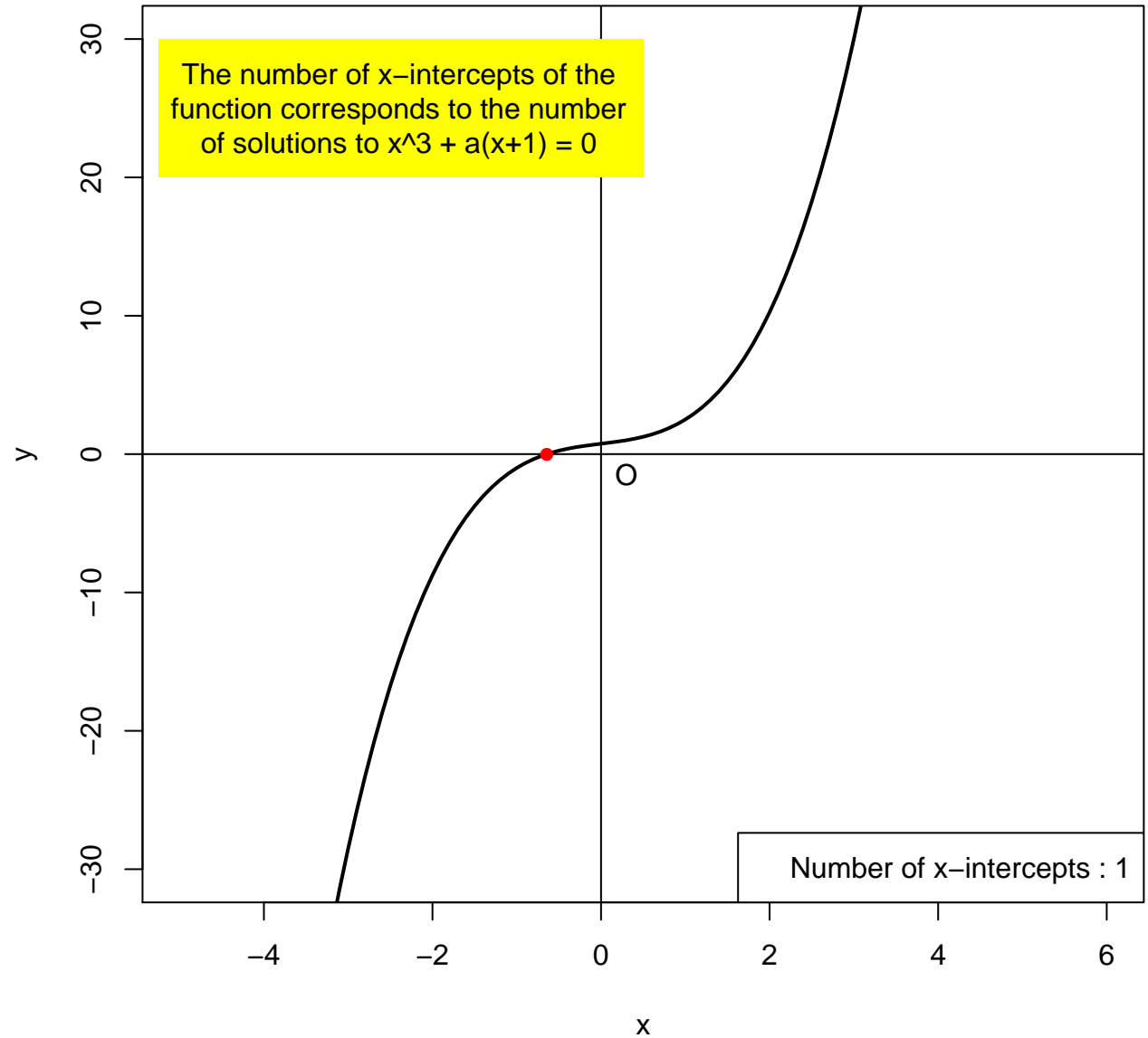
$$a = 0.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



**$a = 0.75$**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

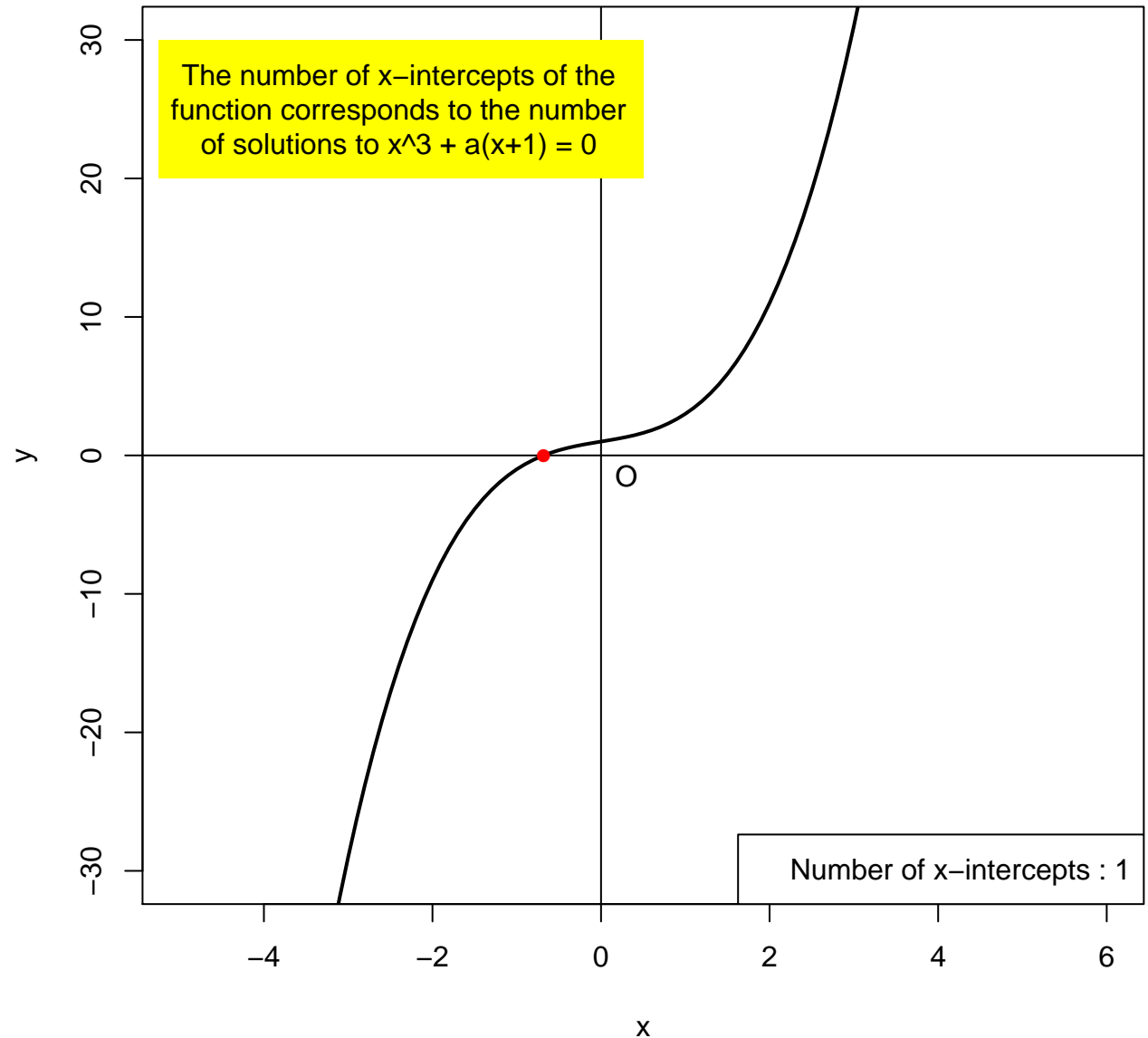


Number of x-intercepts : 1

**a = 1**

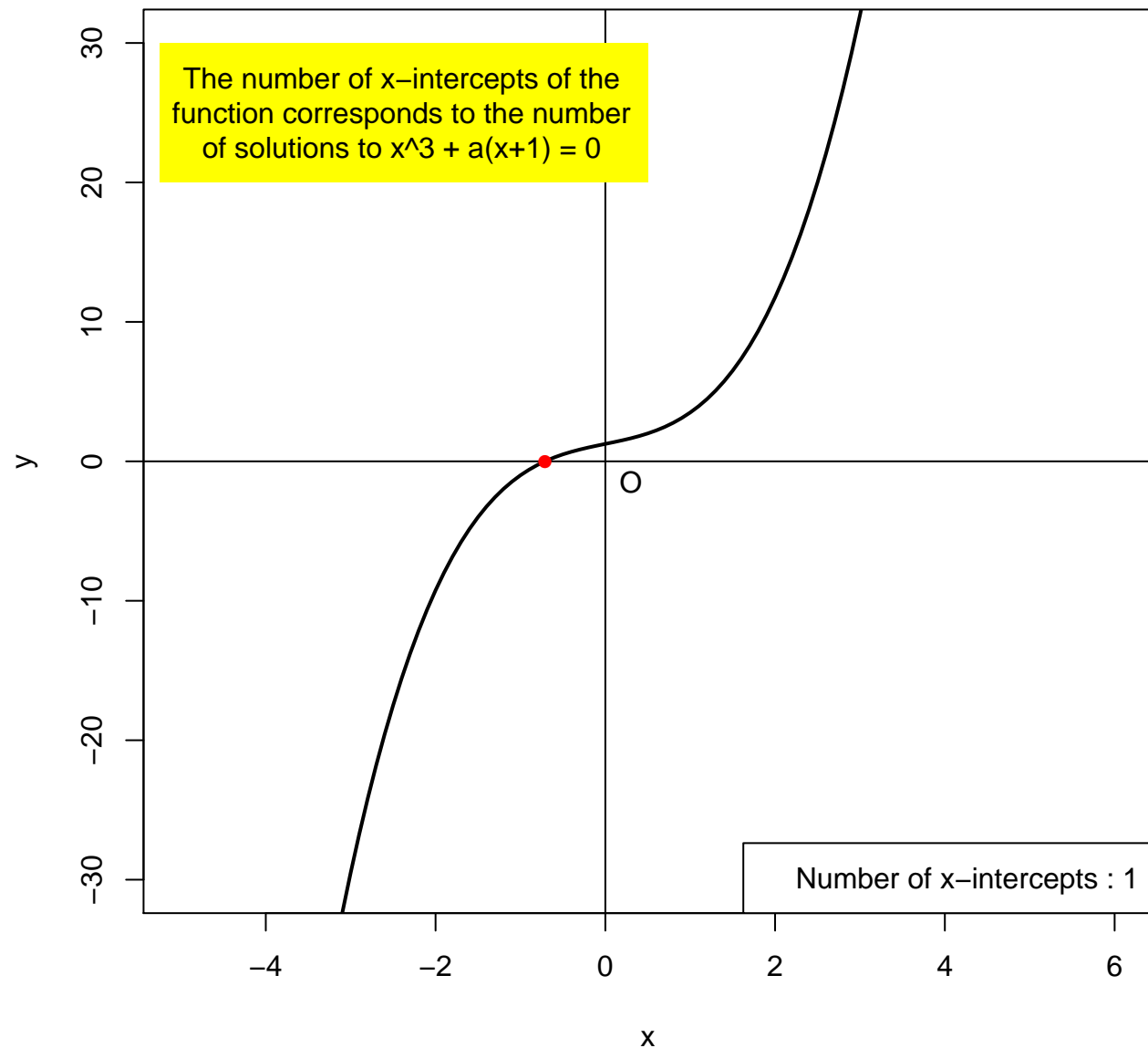
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



$$a = 1.25$$

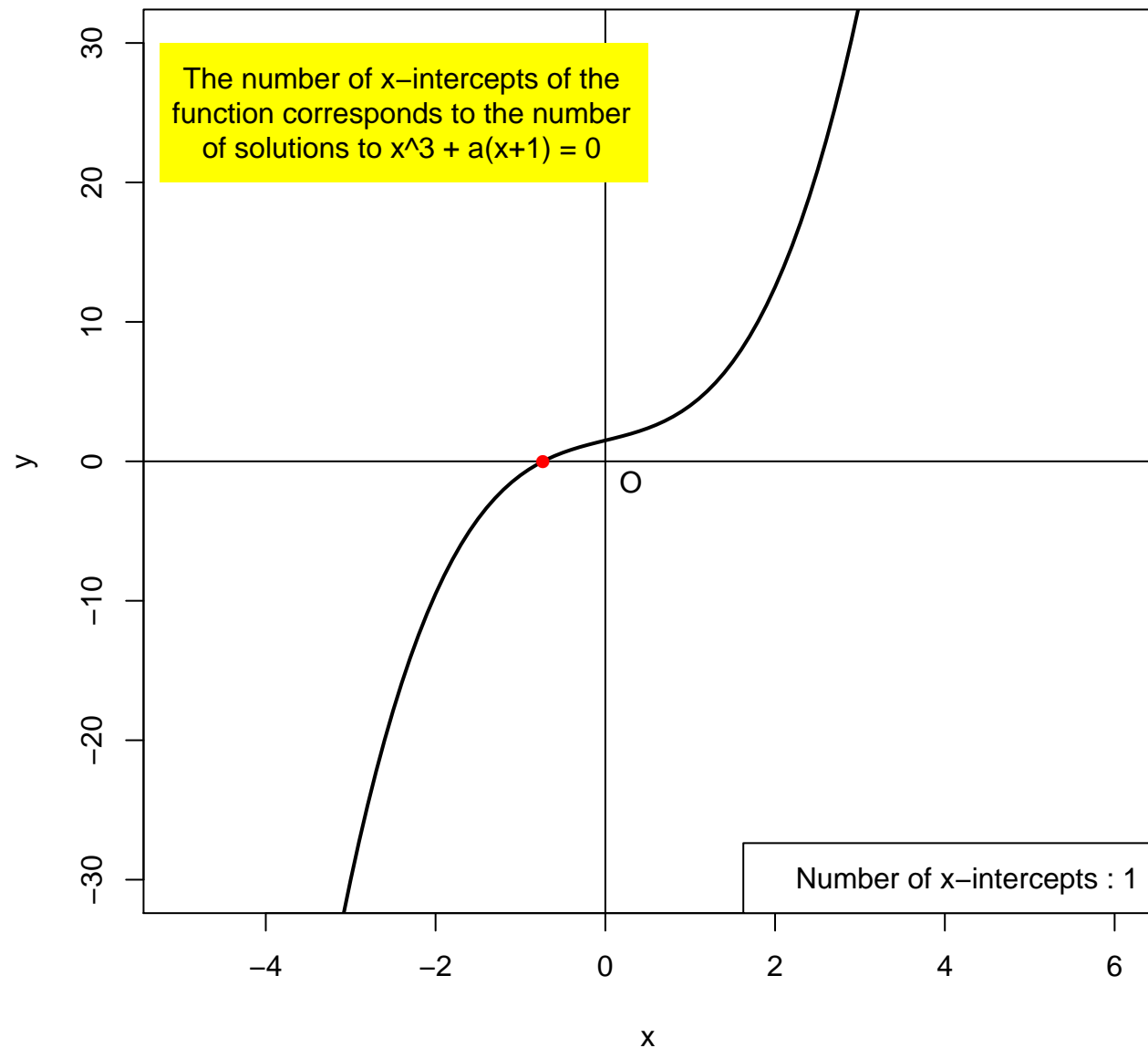
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 1

**a = 1.5**

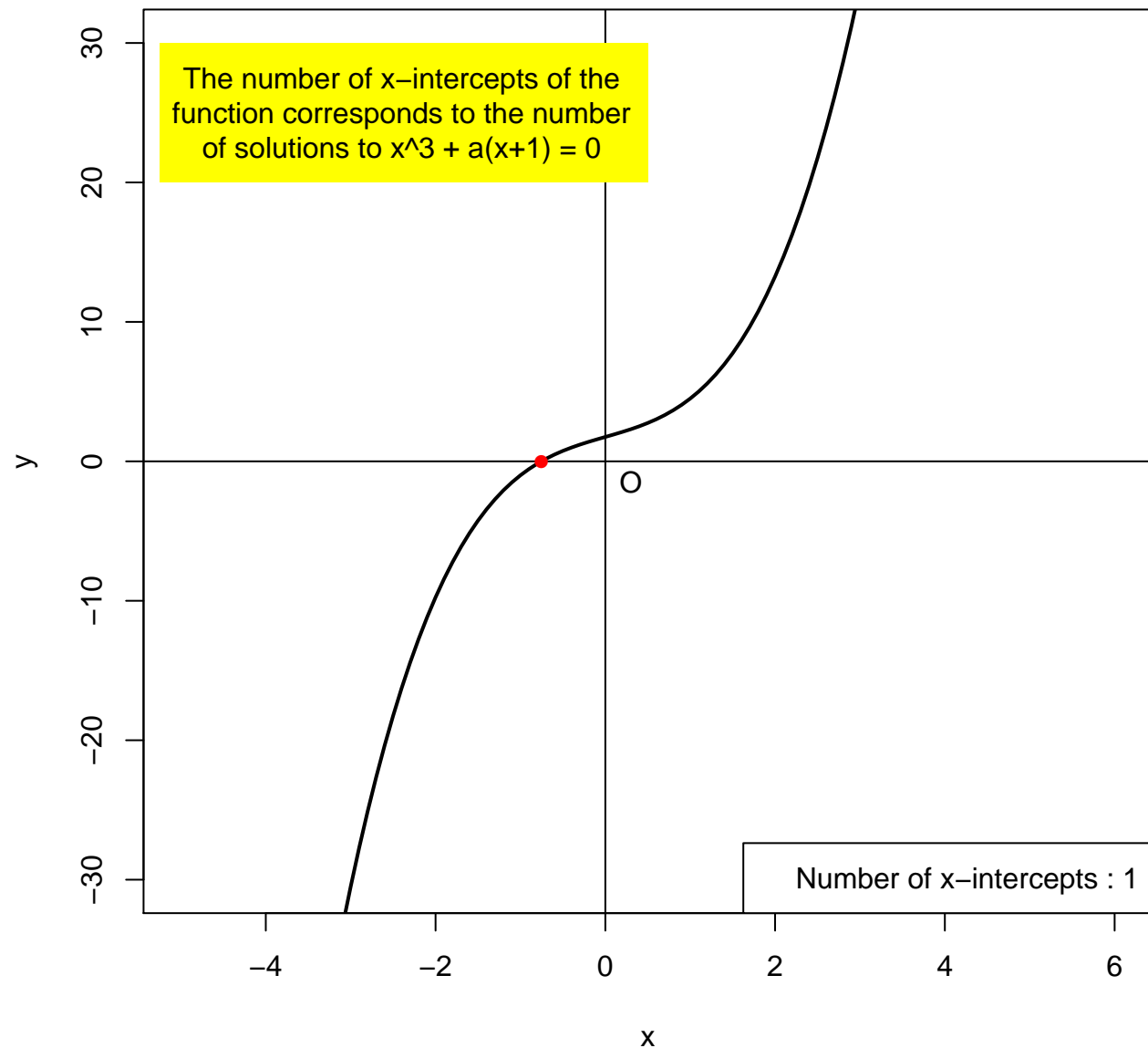
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 1

$$a = 1.75$$

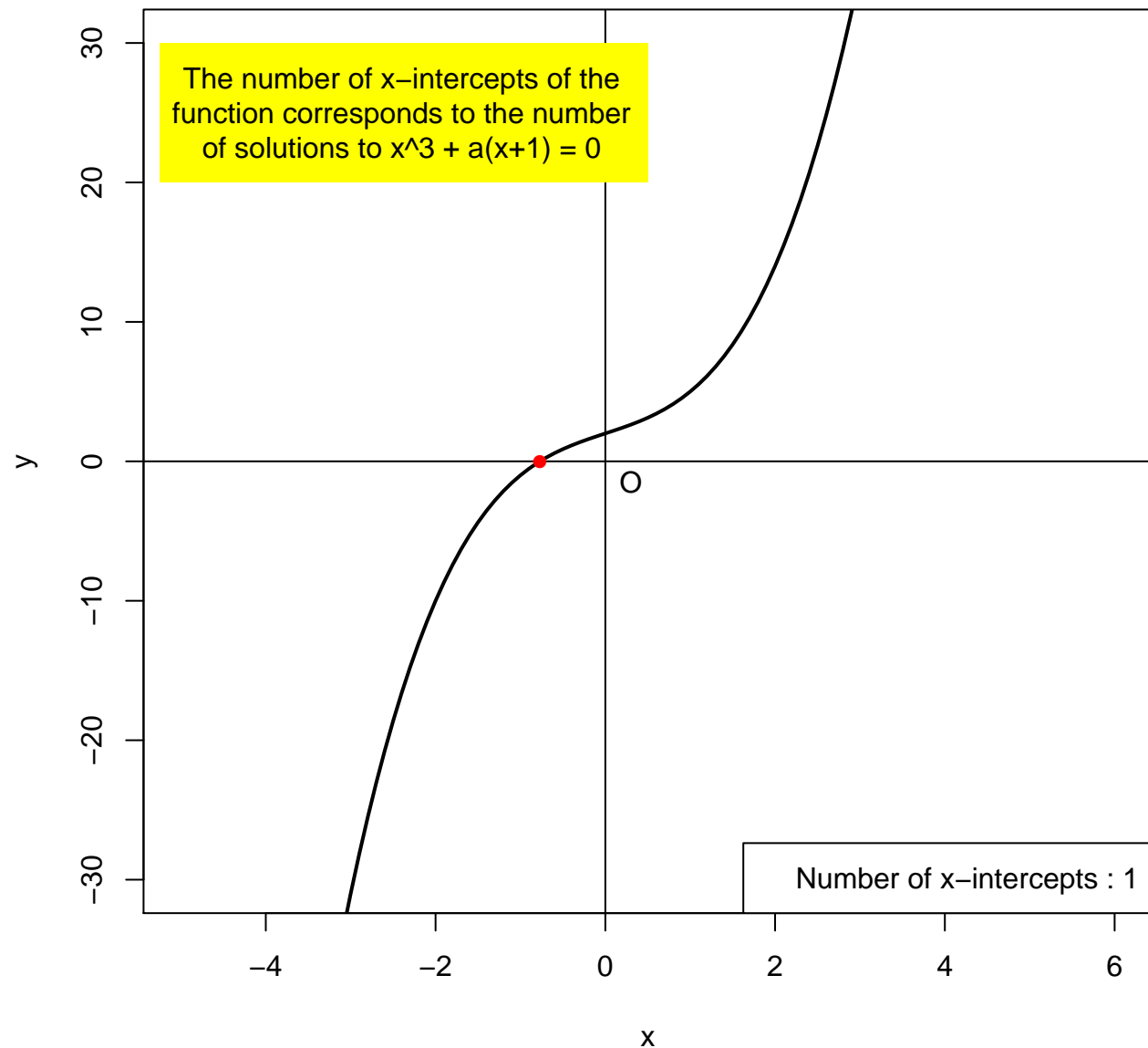
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





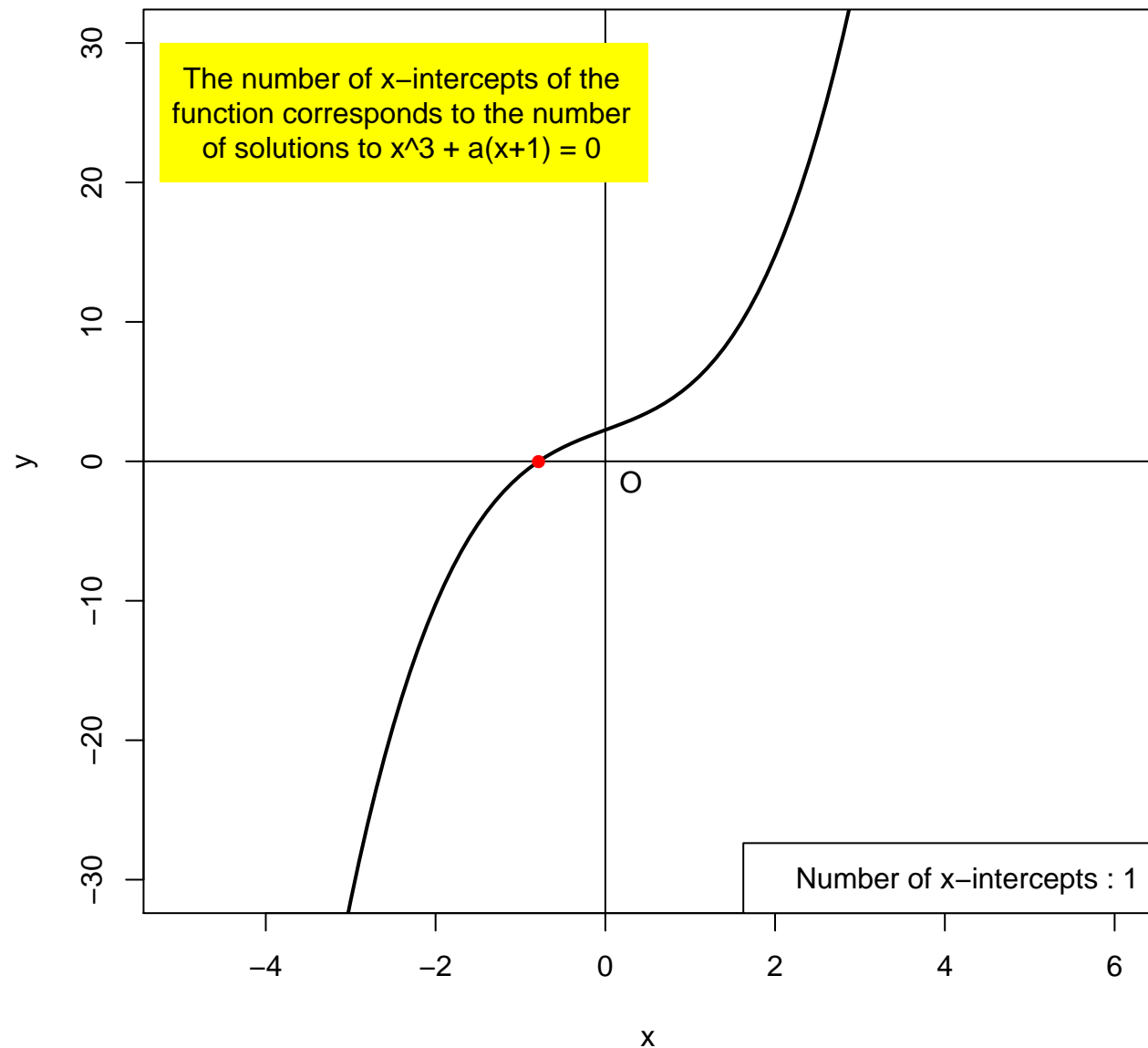
$$a = 2$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



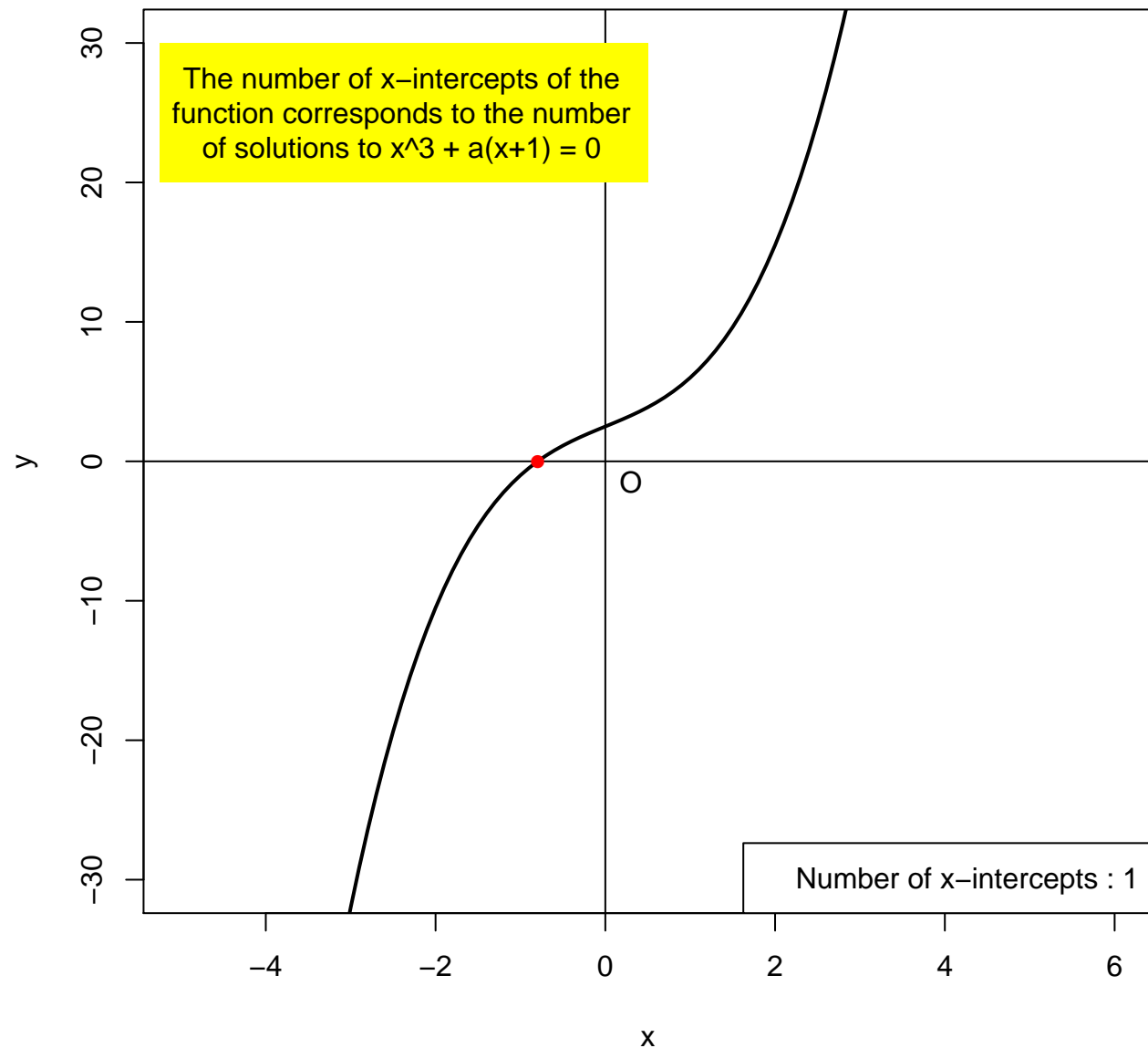
$$a = 2.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



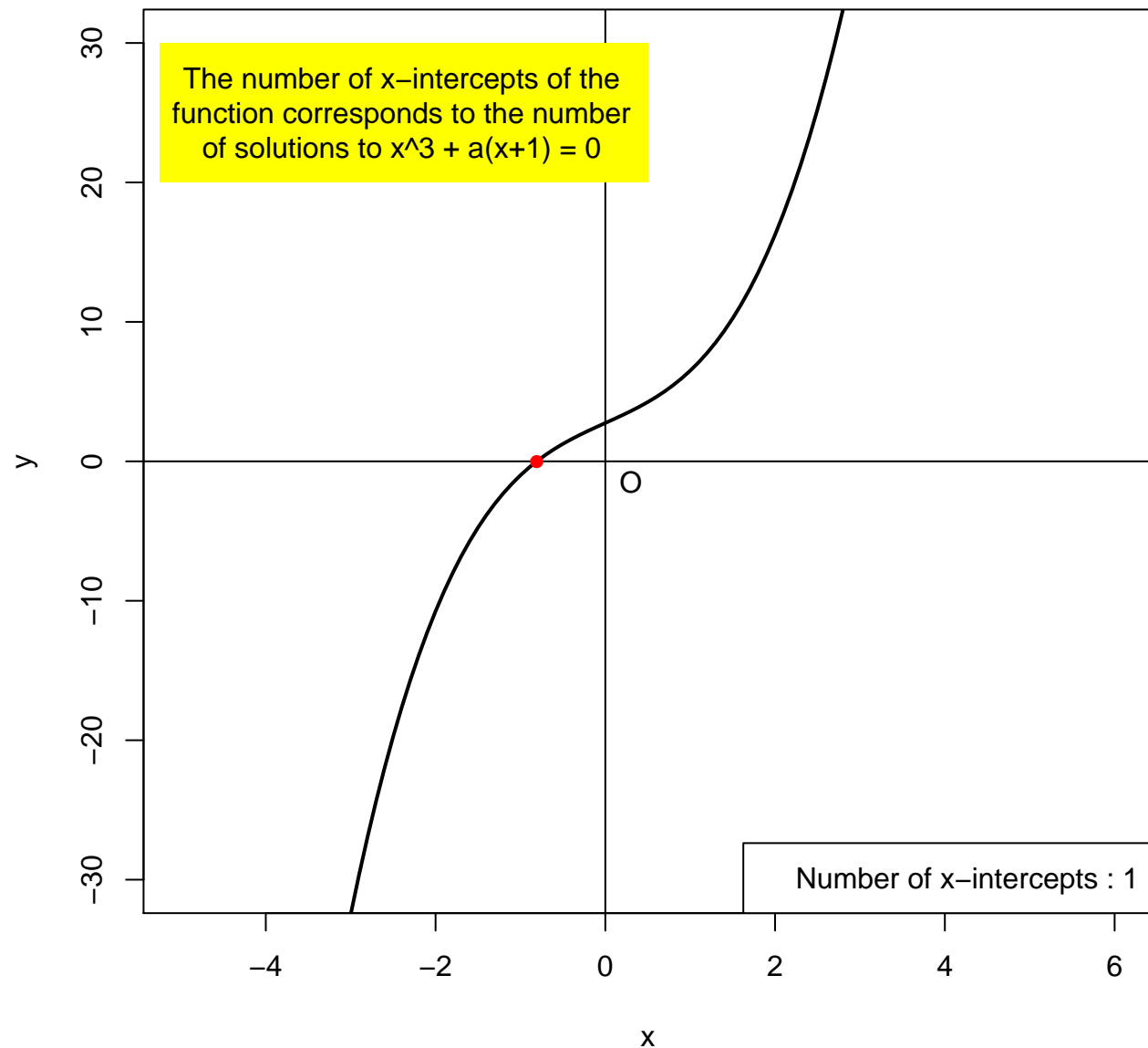
$$a = 2.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



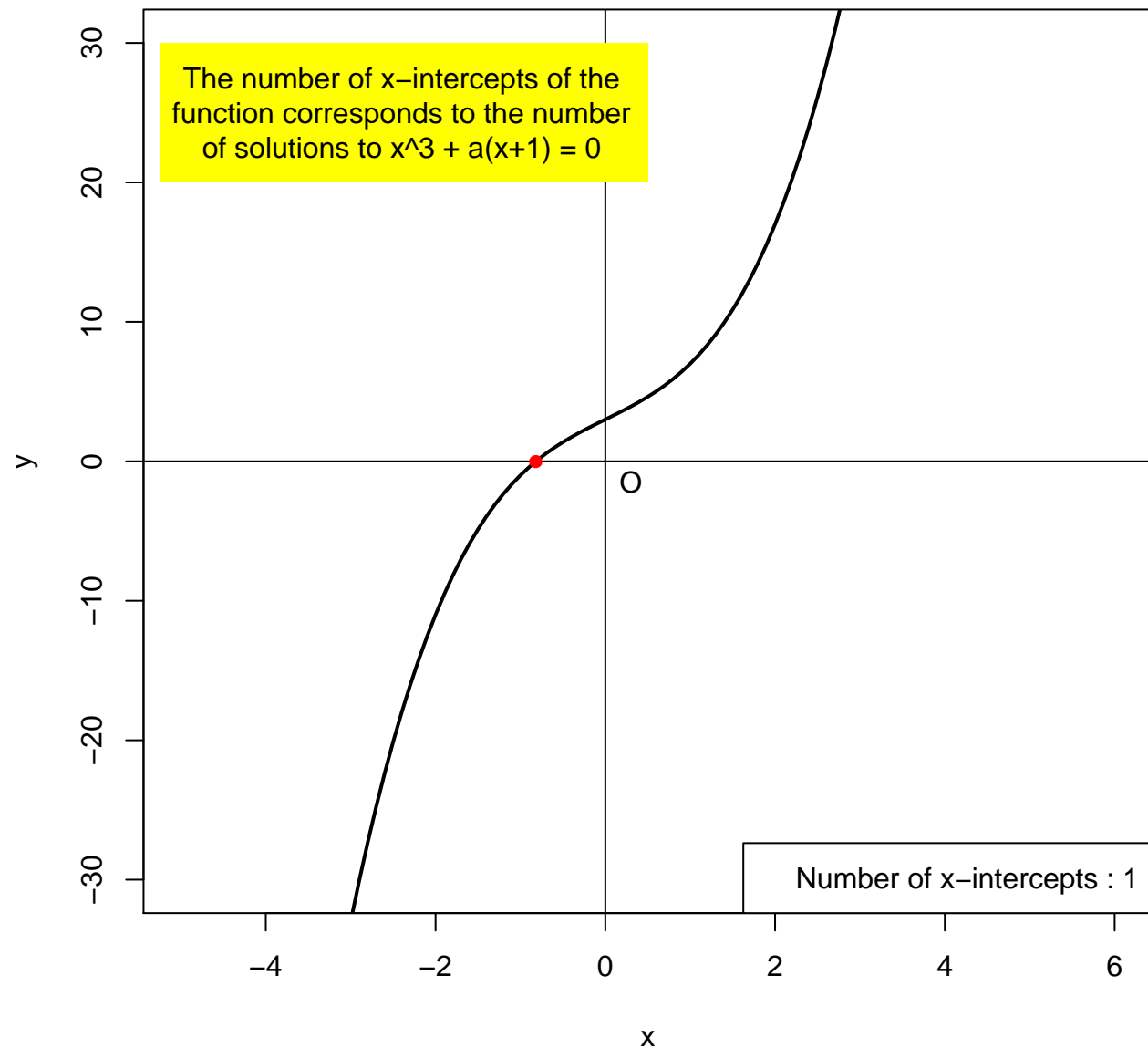
$$a = 2.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



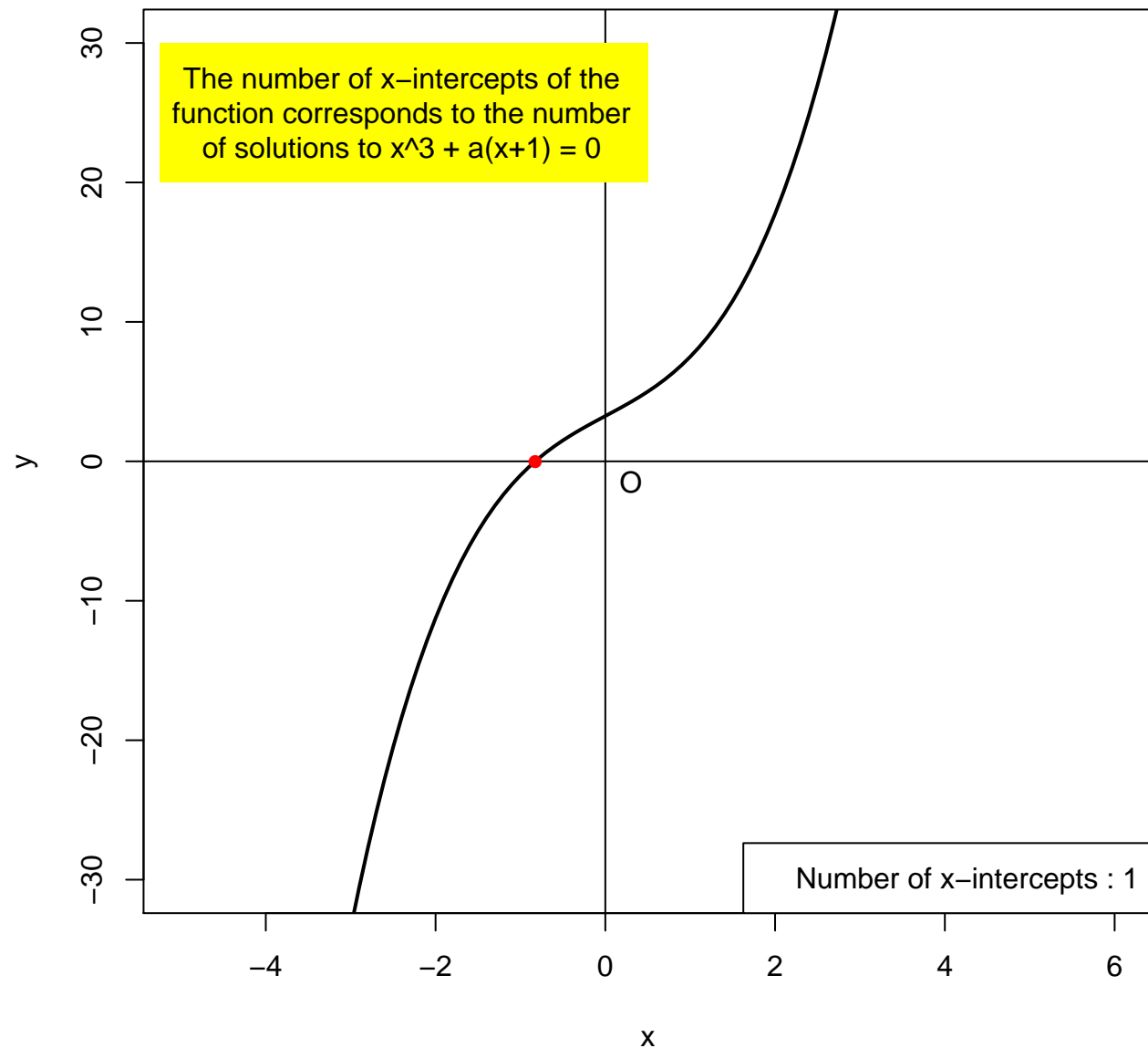
**a = 3**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



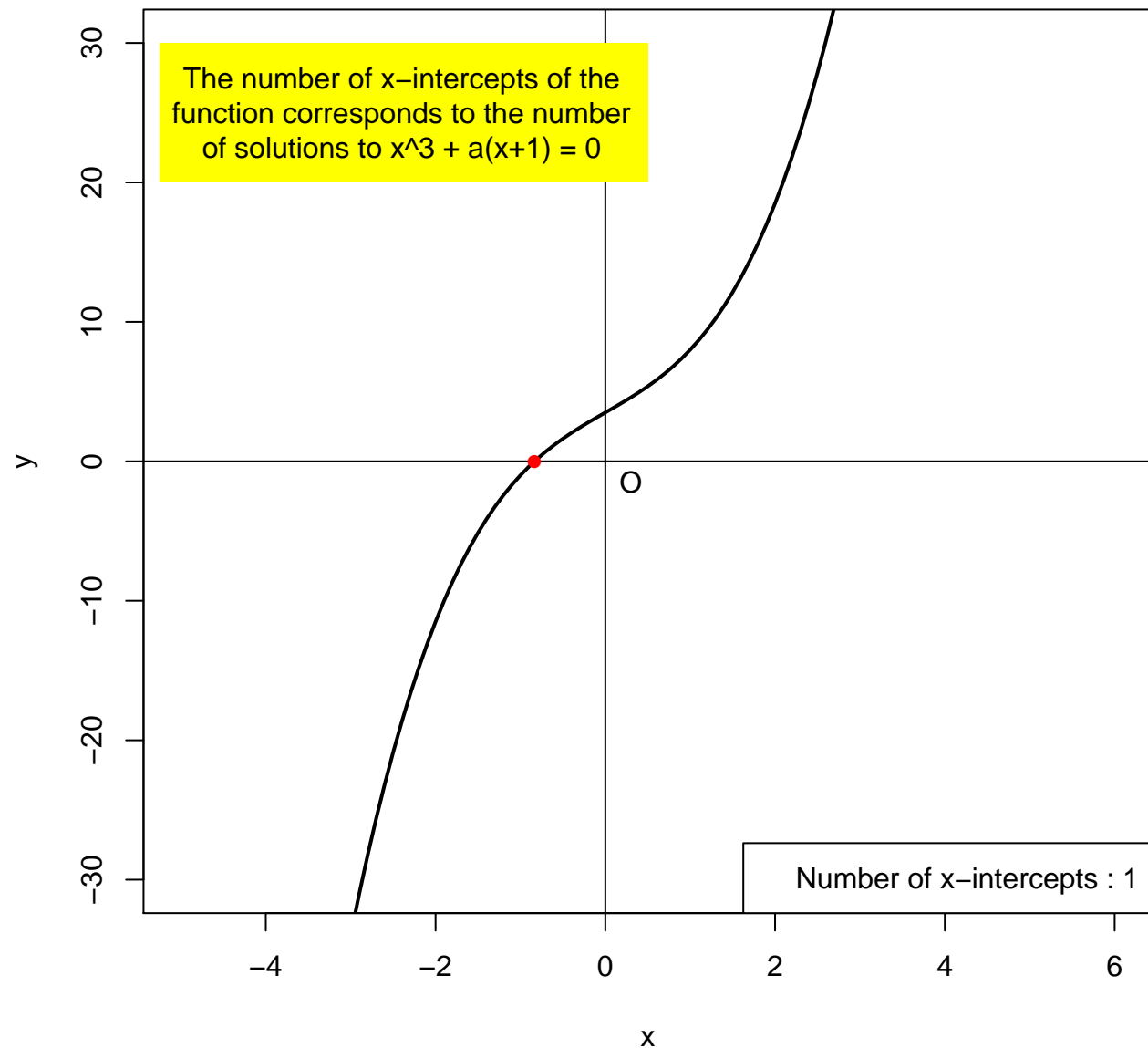
$$a = 3.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



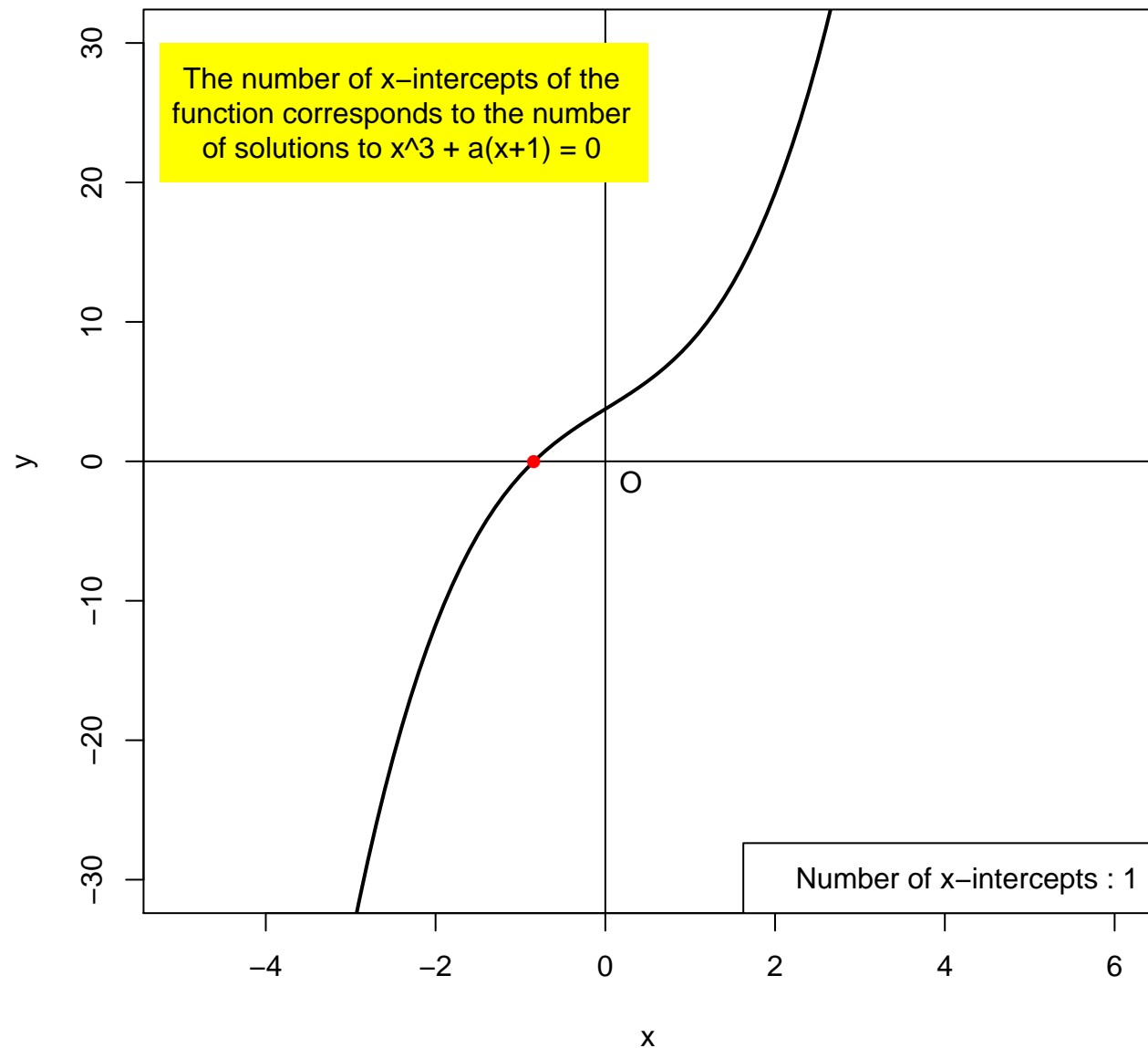
$$a = 3.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = 3.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

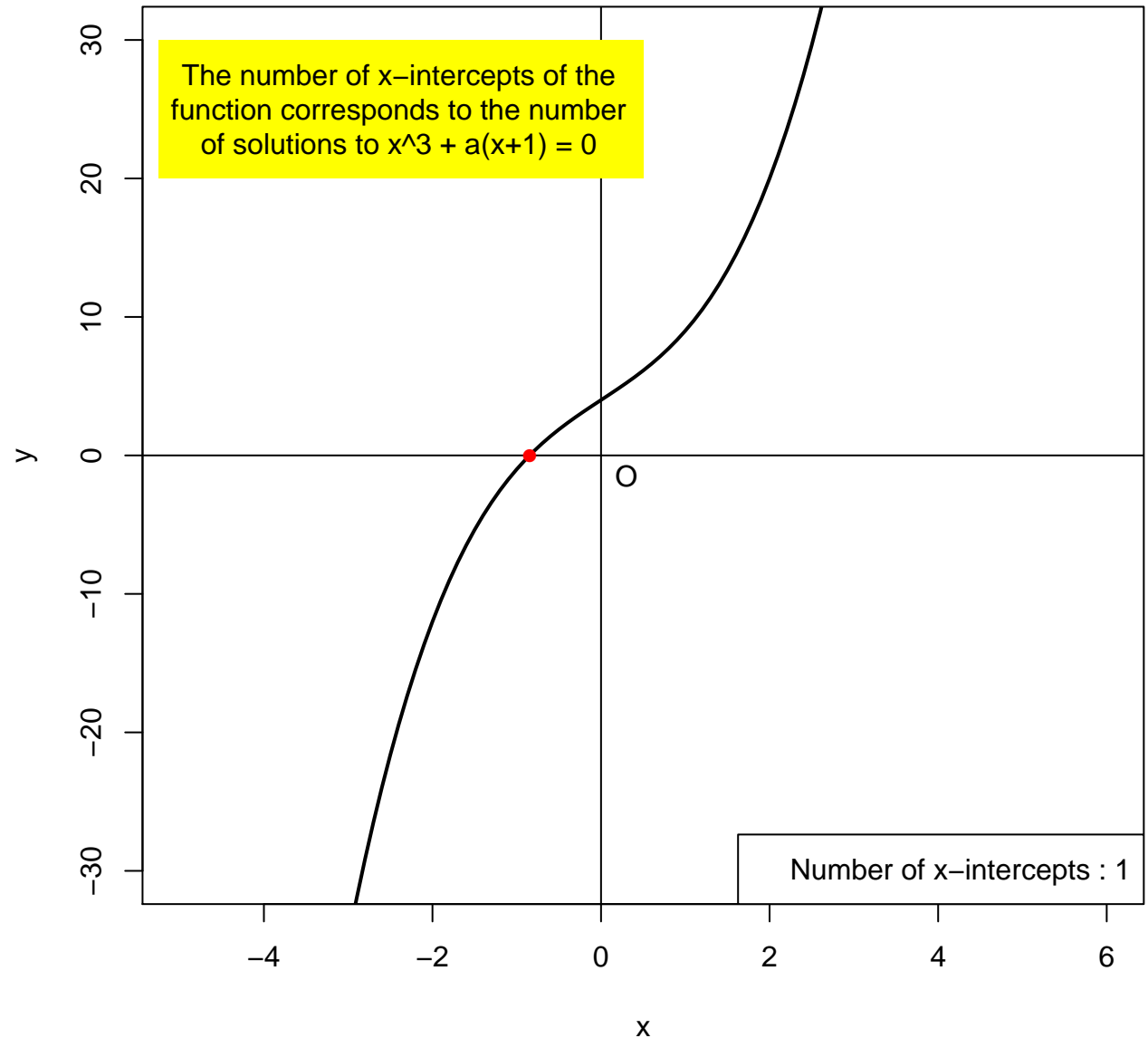


Number of x-intercepts : 1



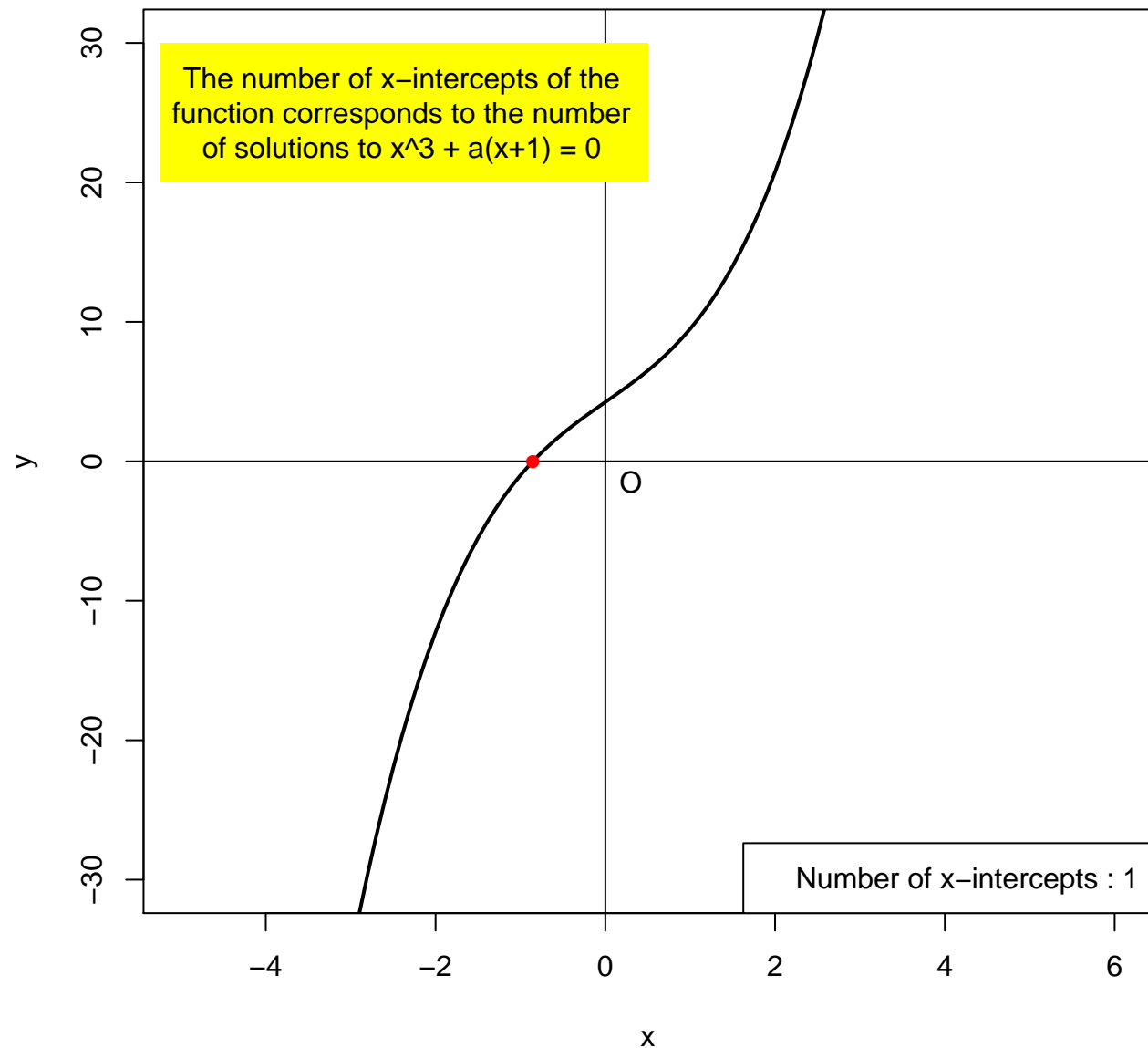
**a = 4**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



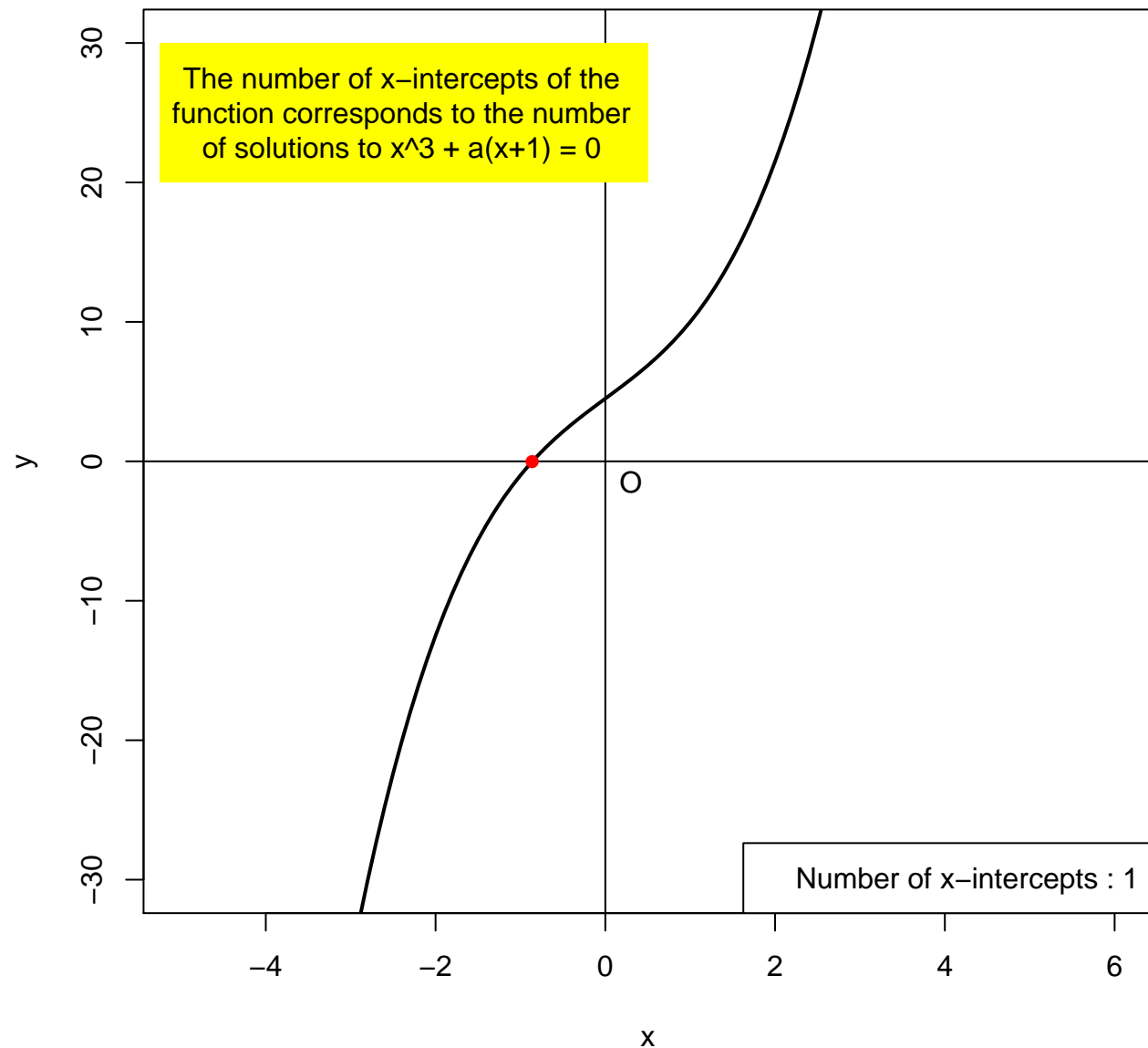
$$a = 4.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



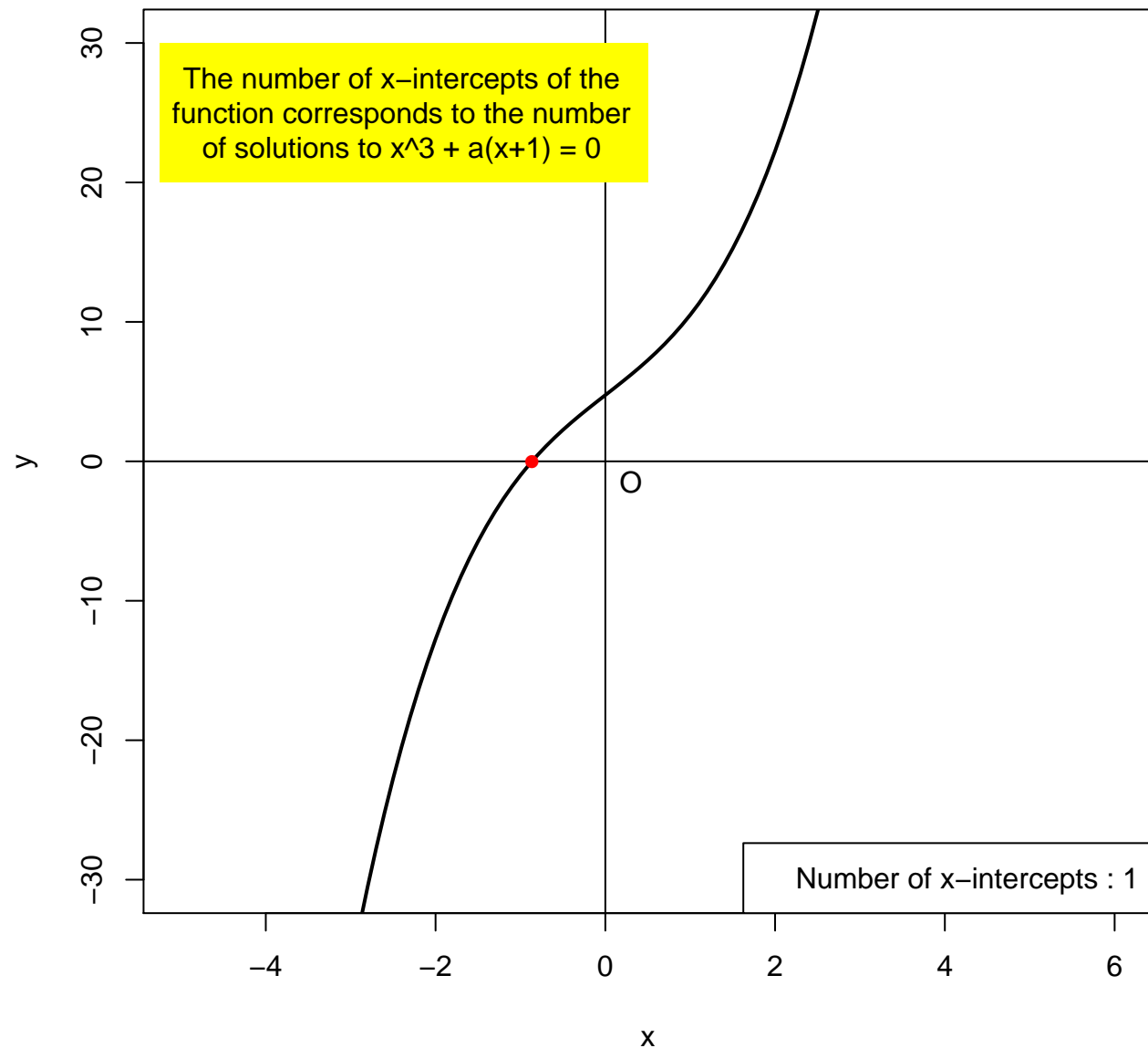
$$a = 4.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = 4.75$$

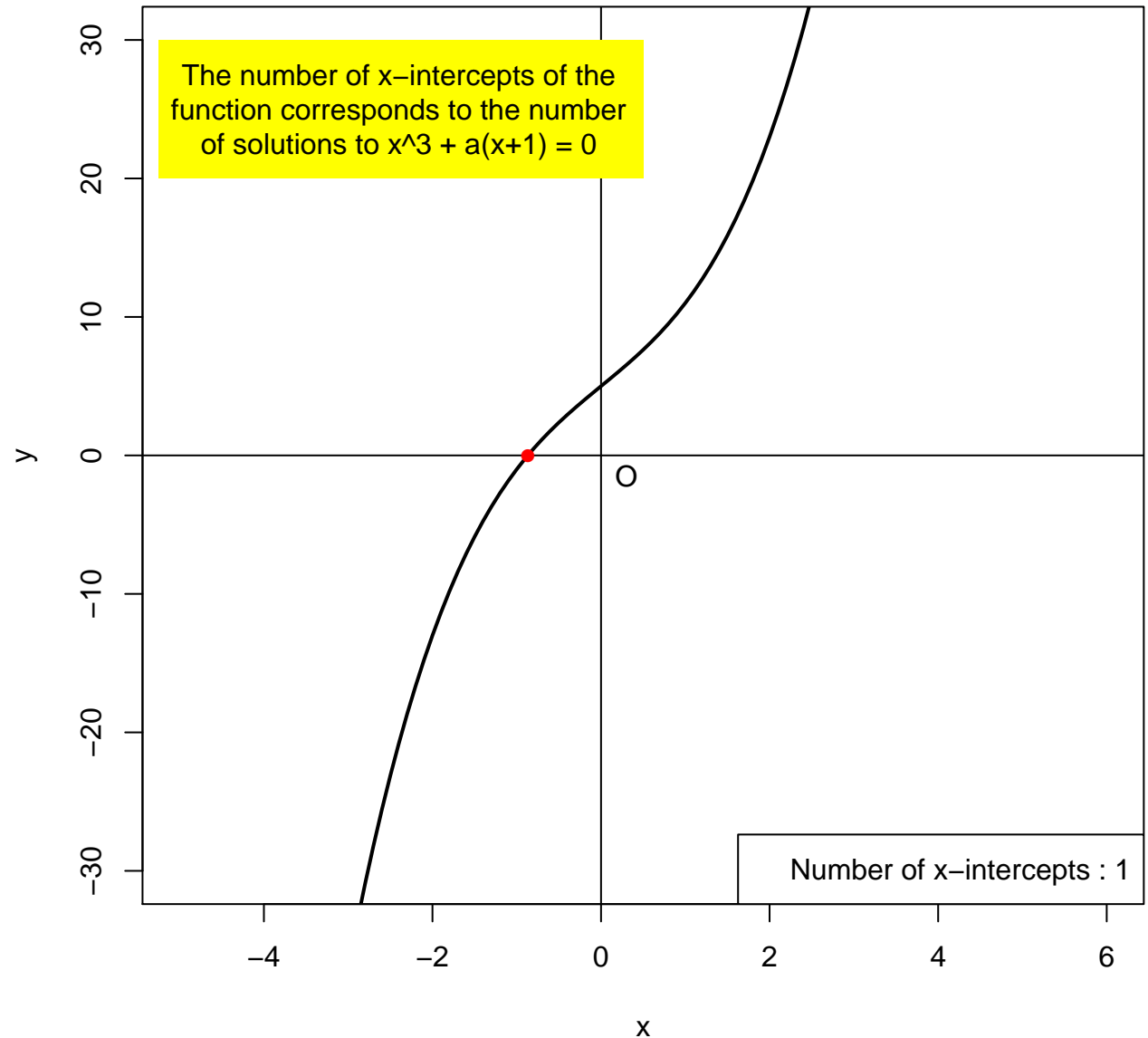
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



**a = 5**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

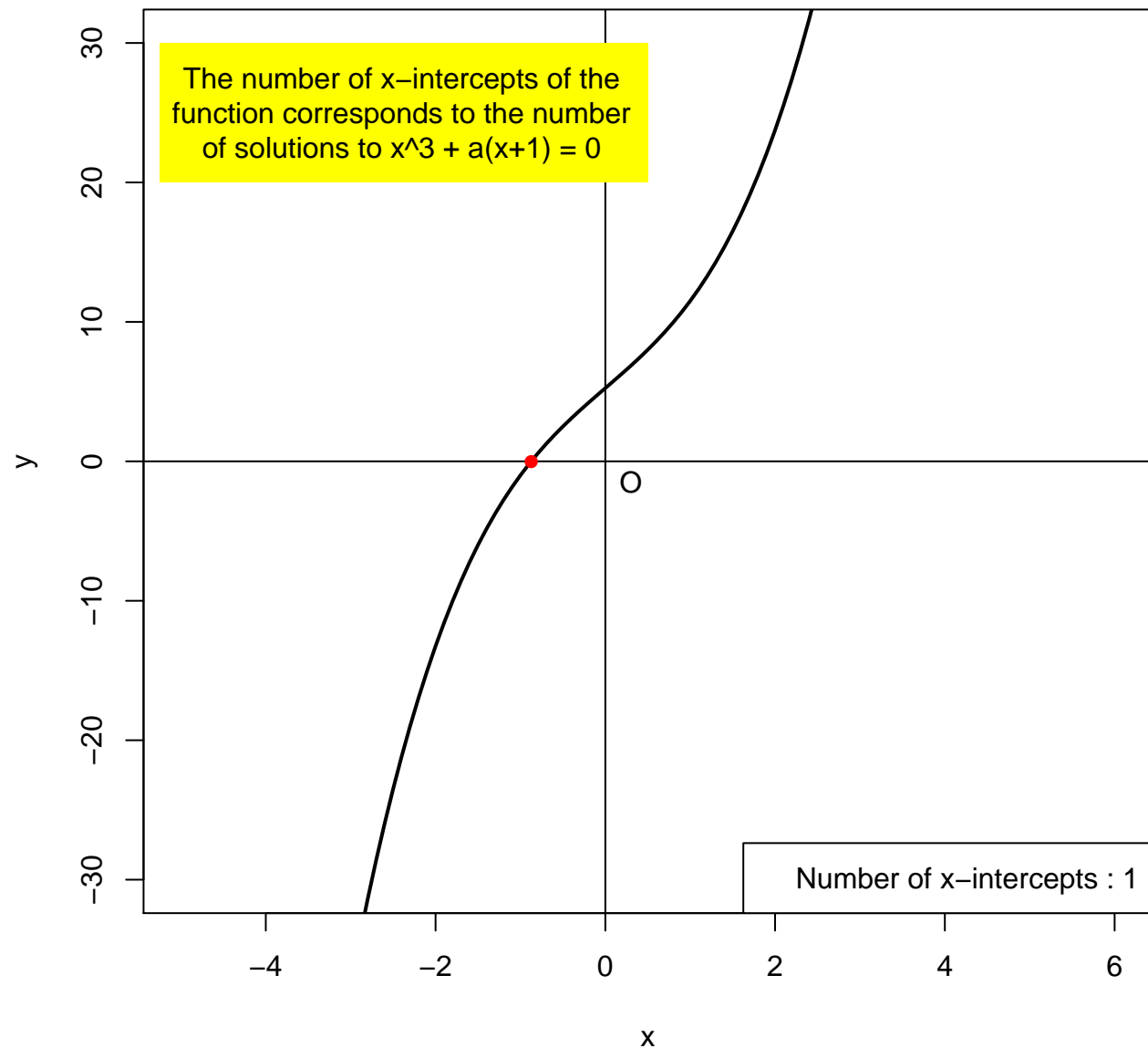
Number of x-intercepts : 1



$$a = 5.25$$

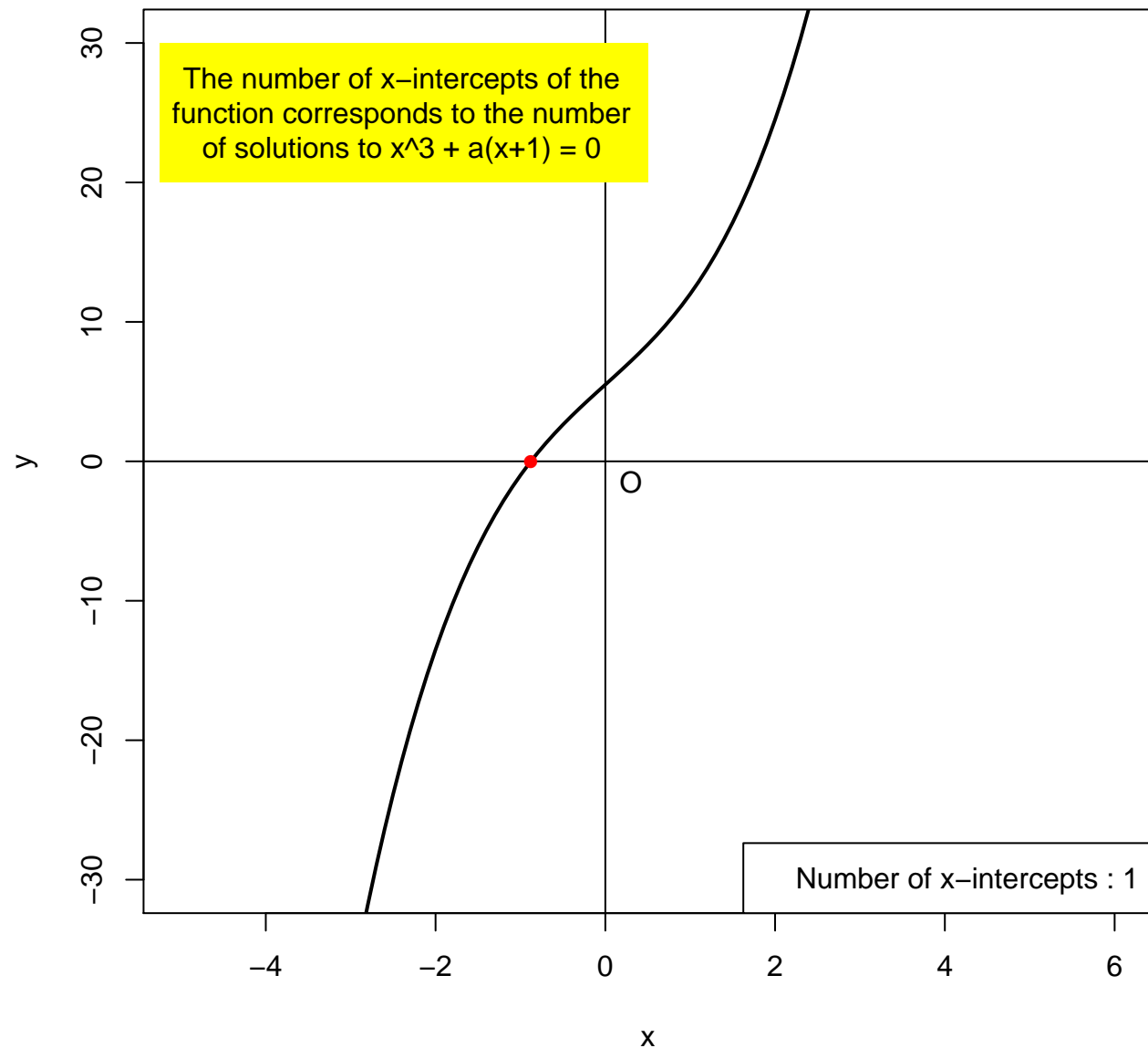
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



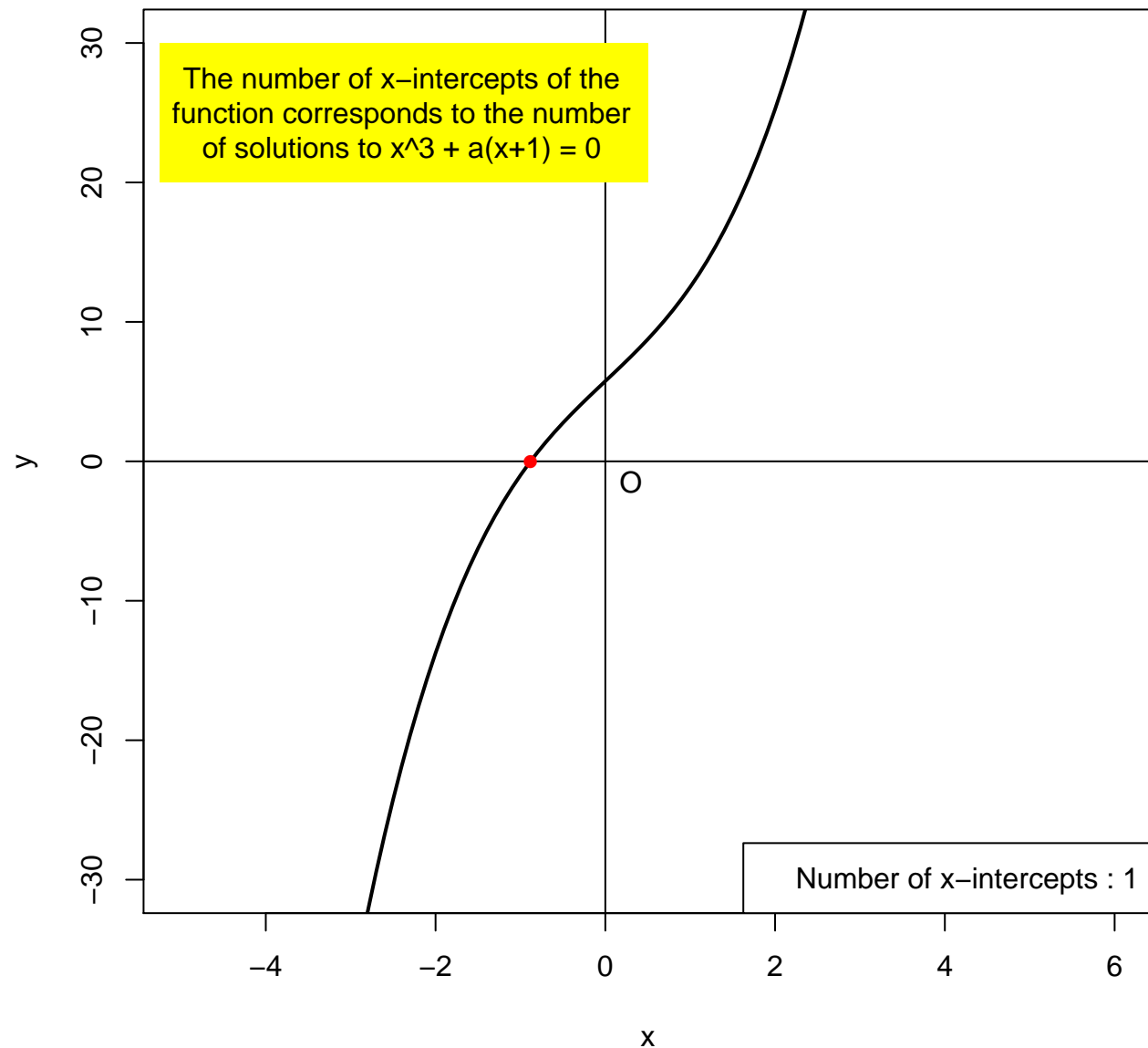
$$a = 5.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = 5.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

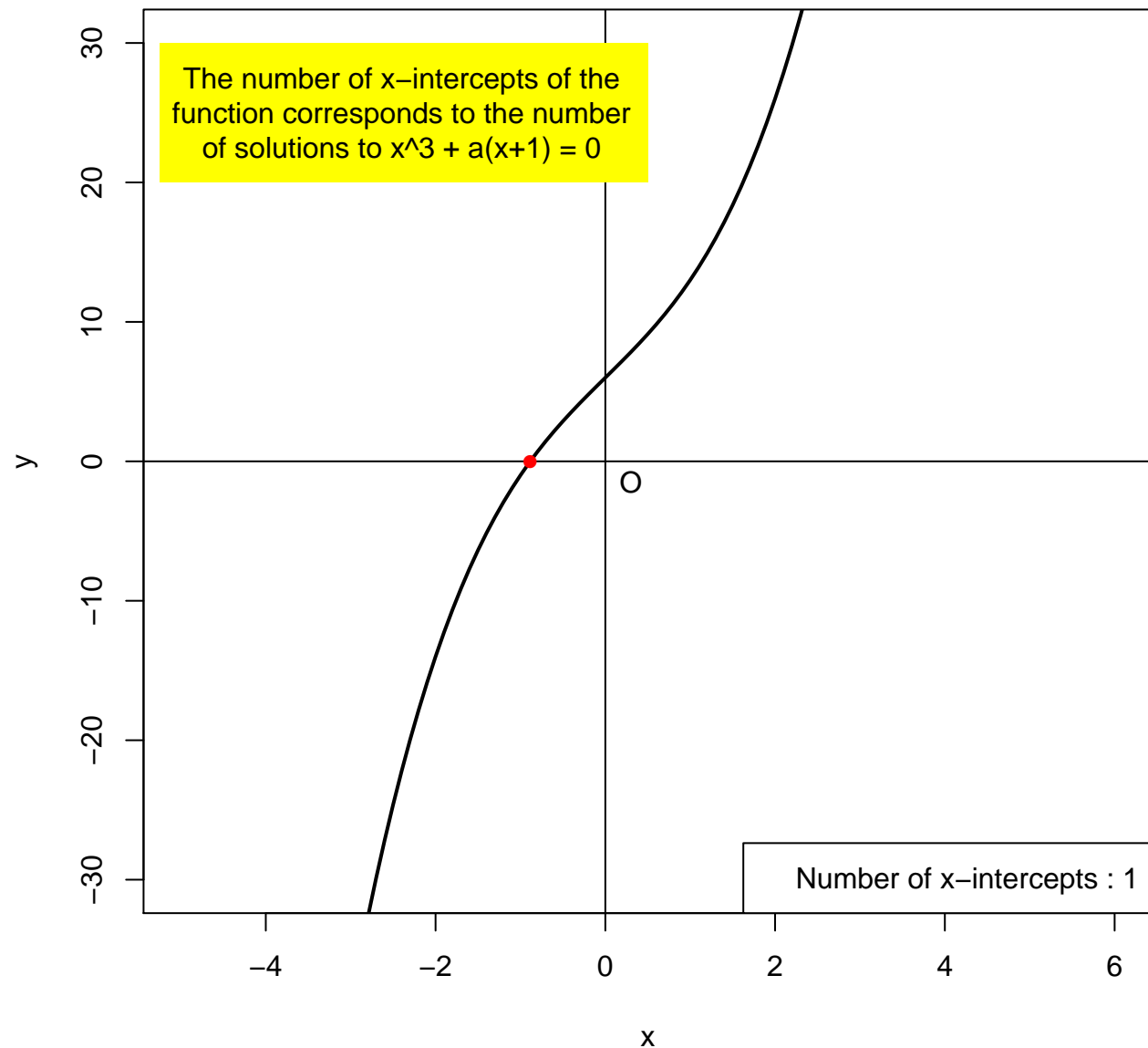




**a = 6**

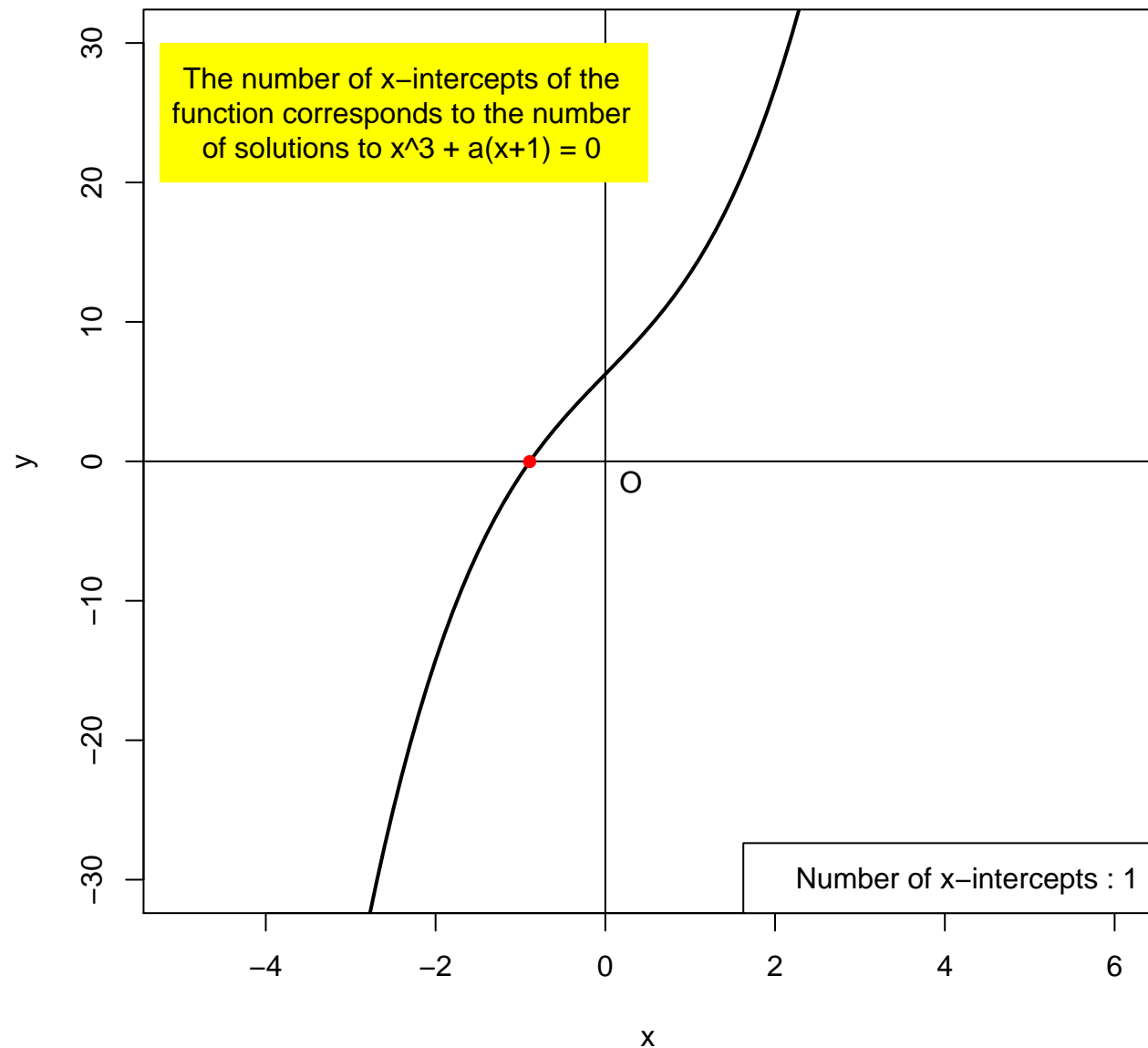
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



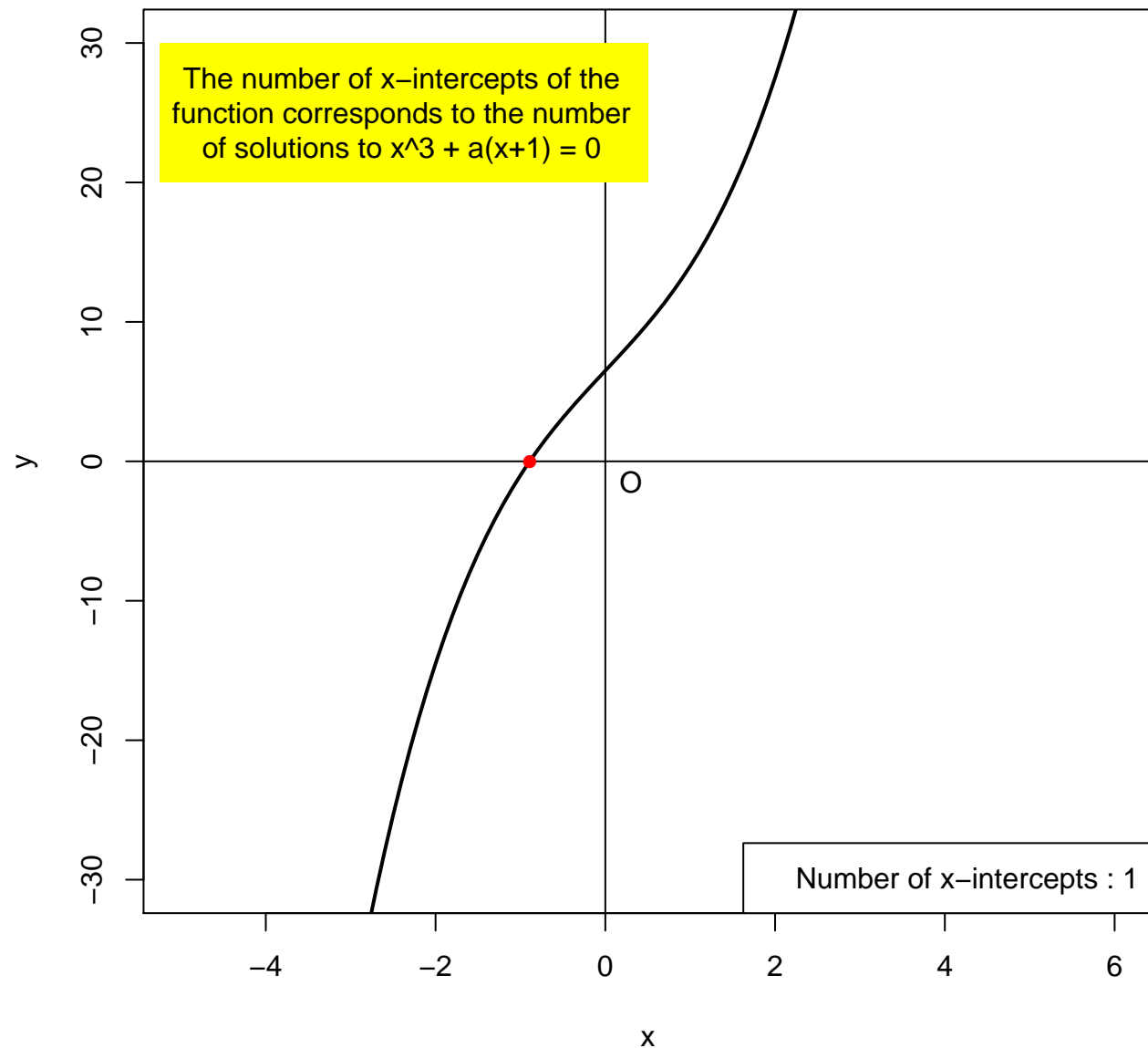
$$a = 6.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



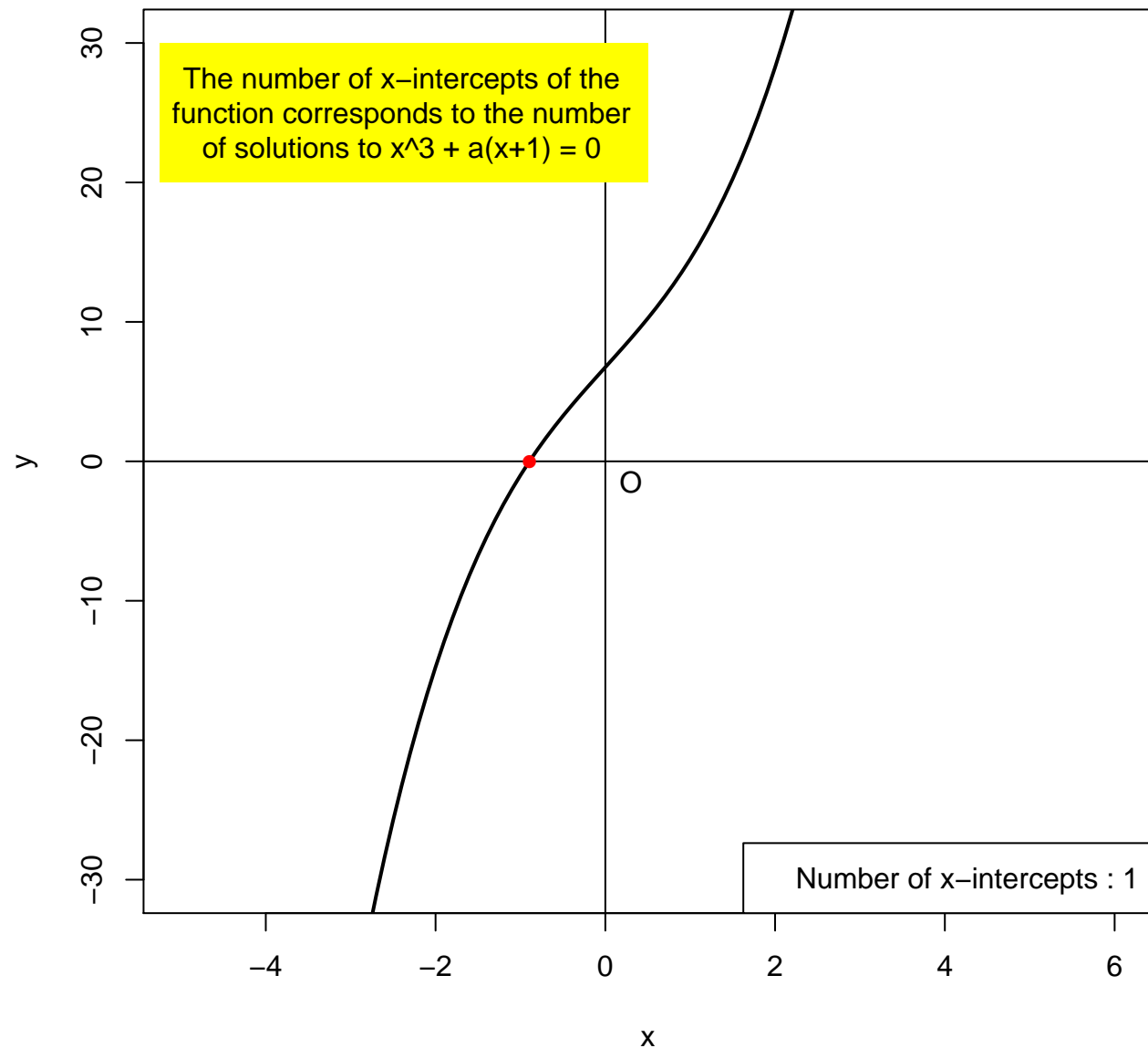
$$a = 6.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = 6.75$$

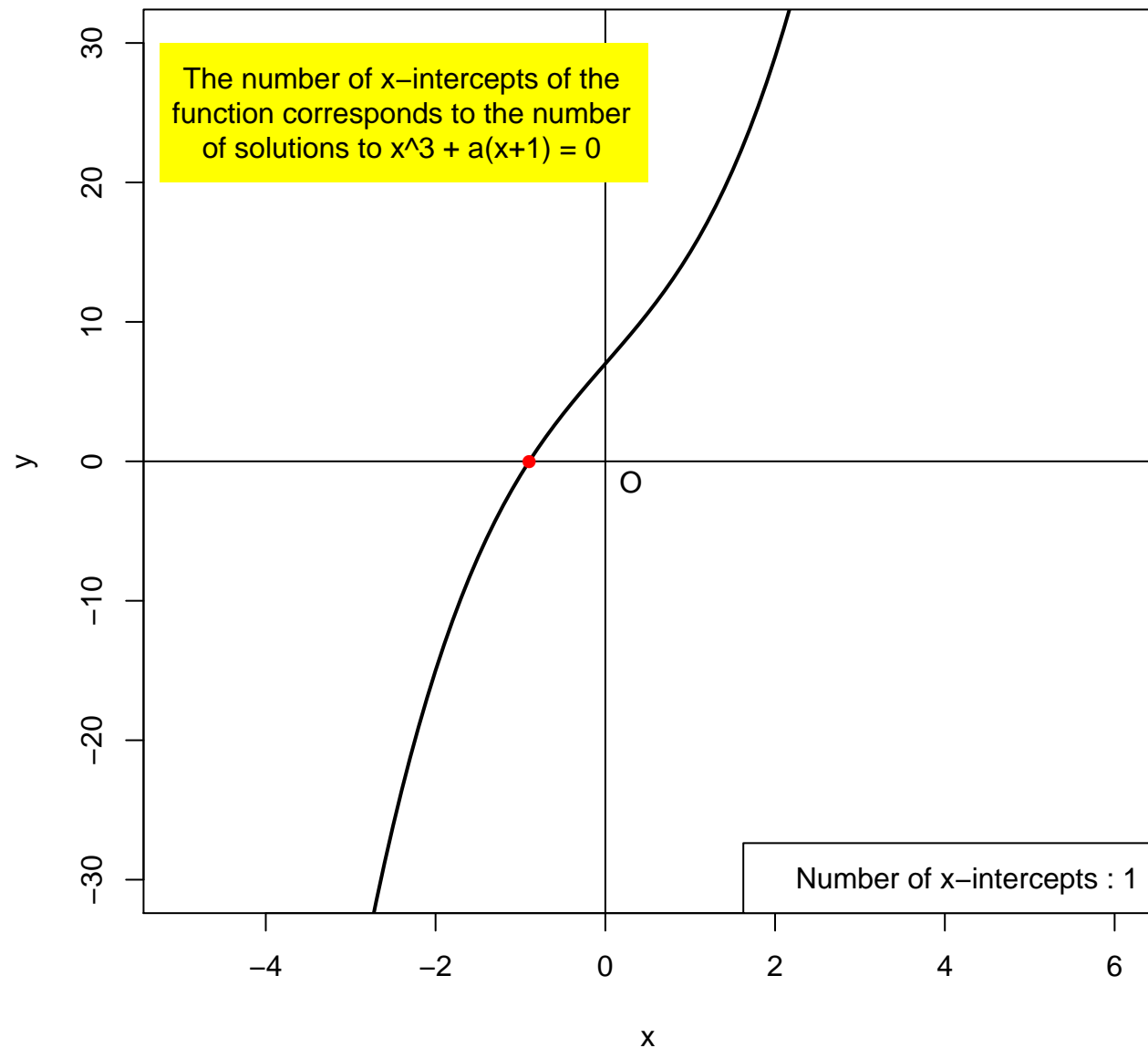
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 1

**a = 7**

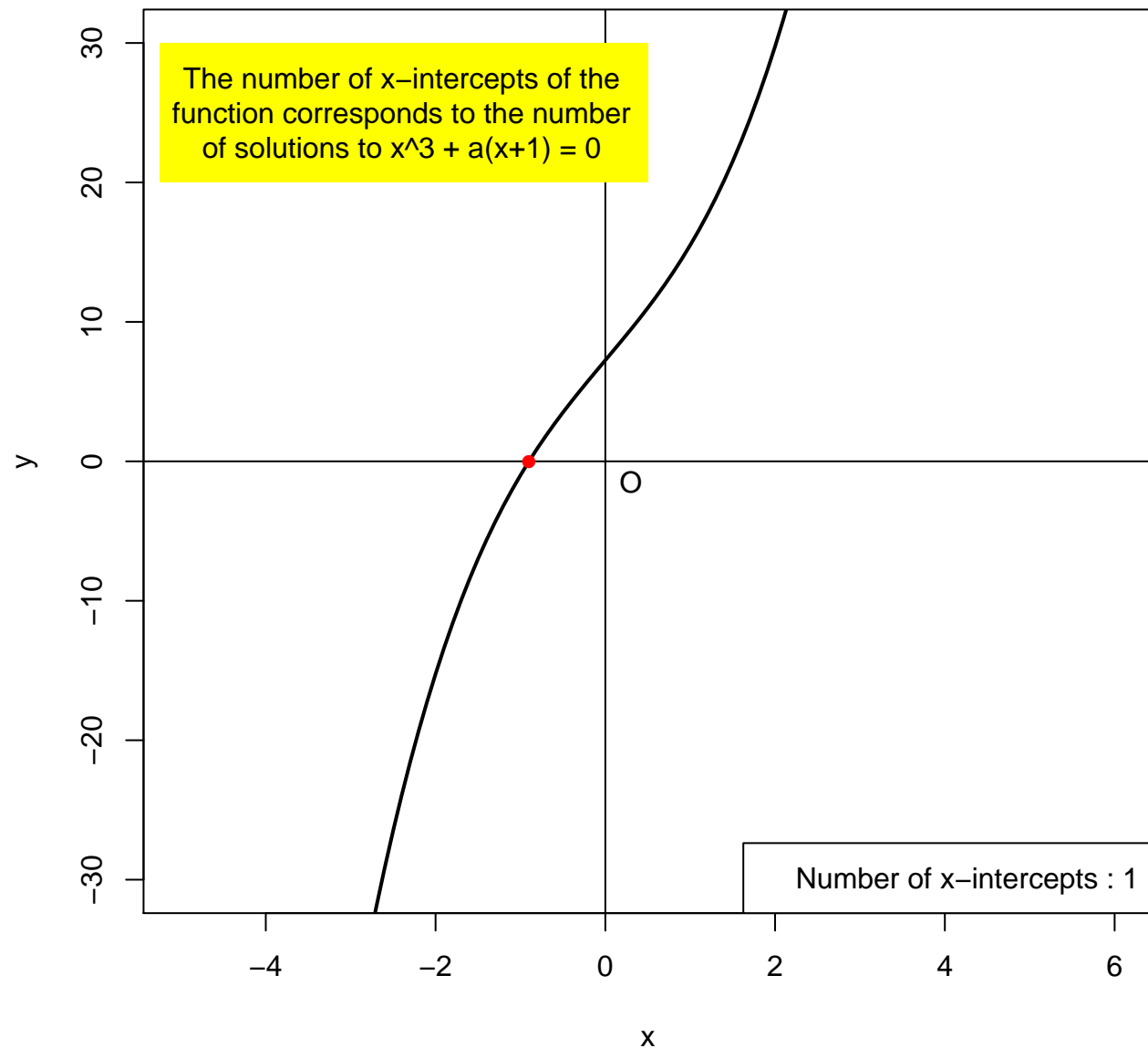
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



Number of x-intercepts : 1

$$a = 7.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

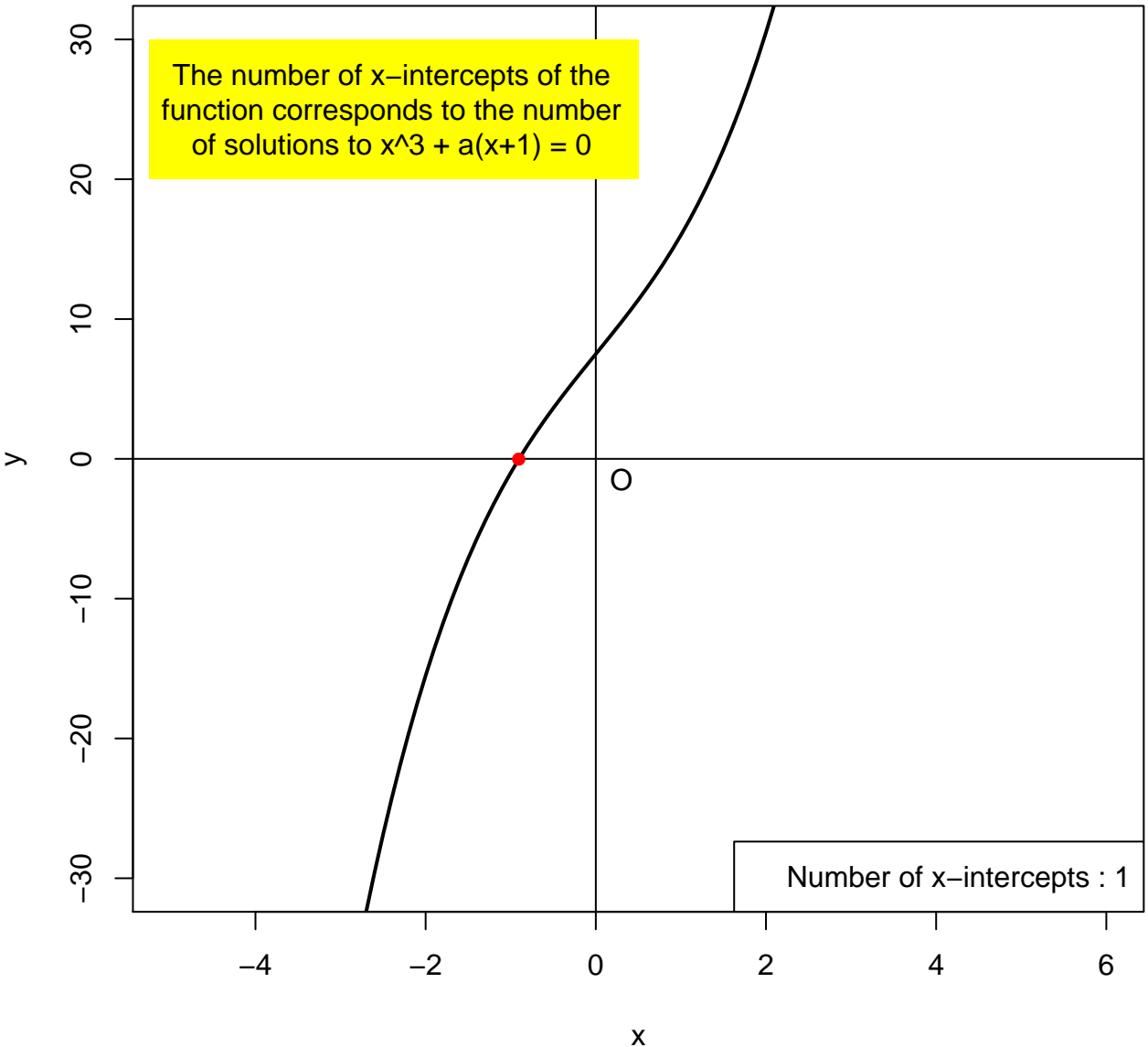


Number of x-intercepts : 1

$$a = 7.5$$

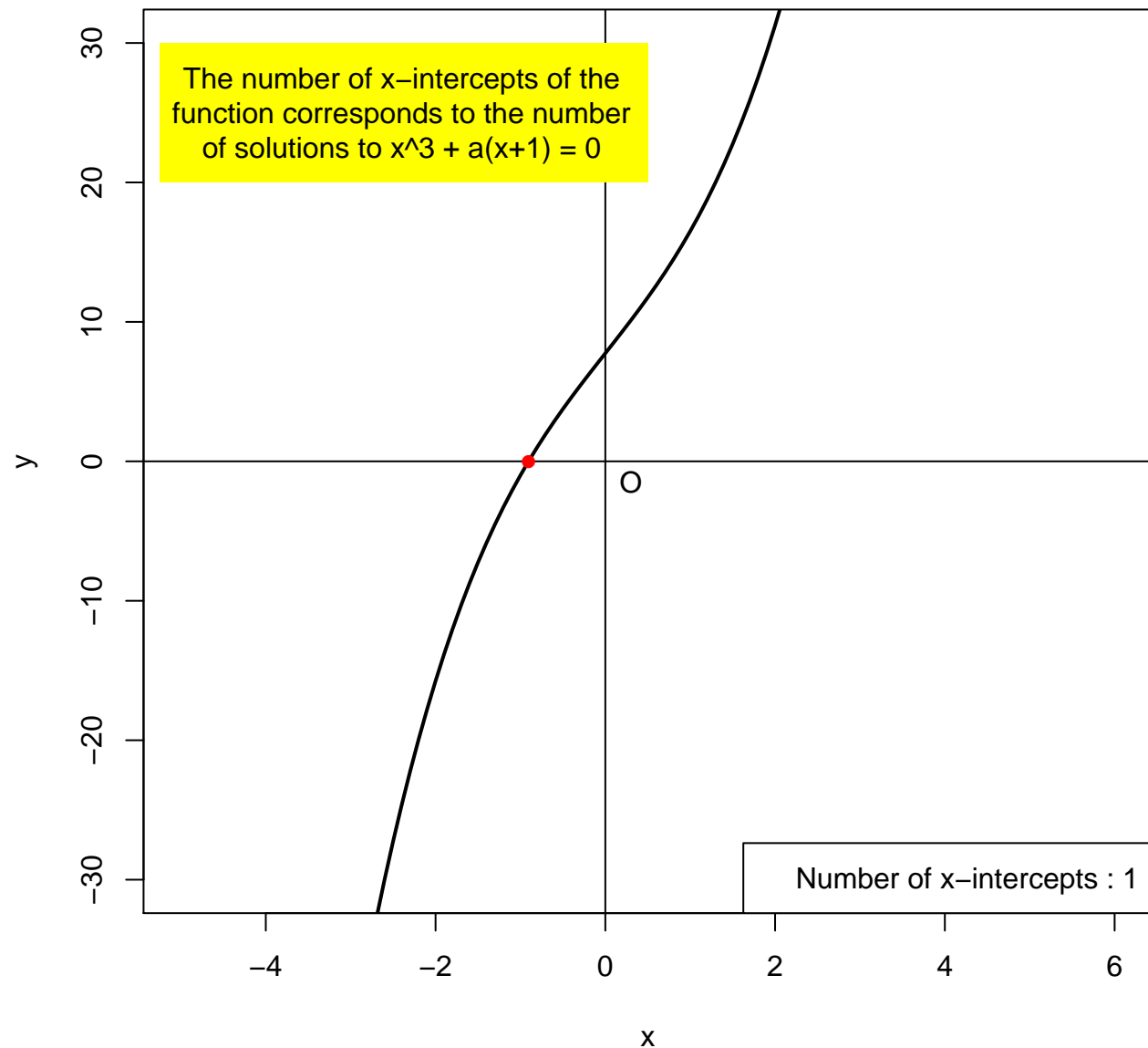
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



$$a = 7.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$





**a = 8**

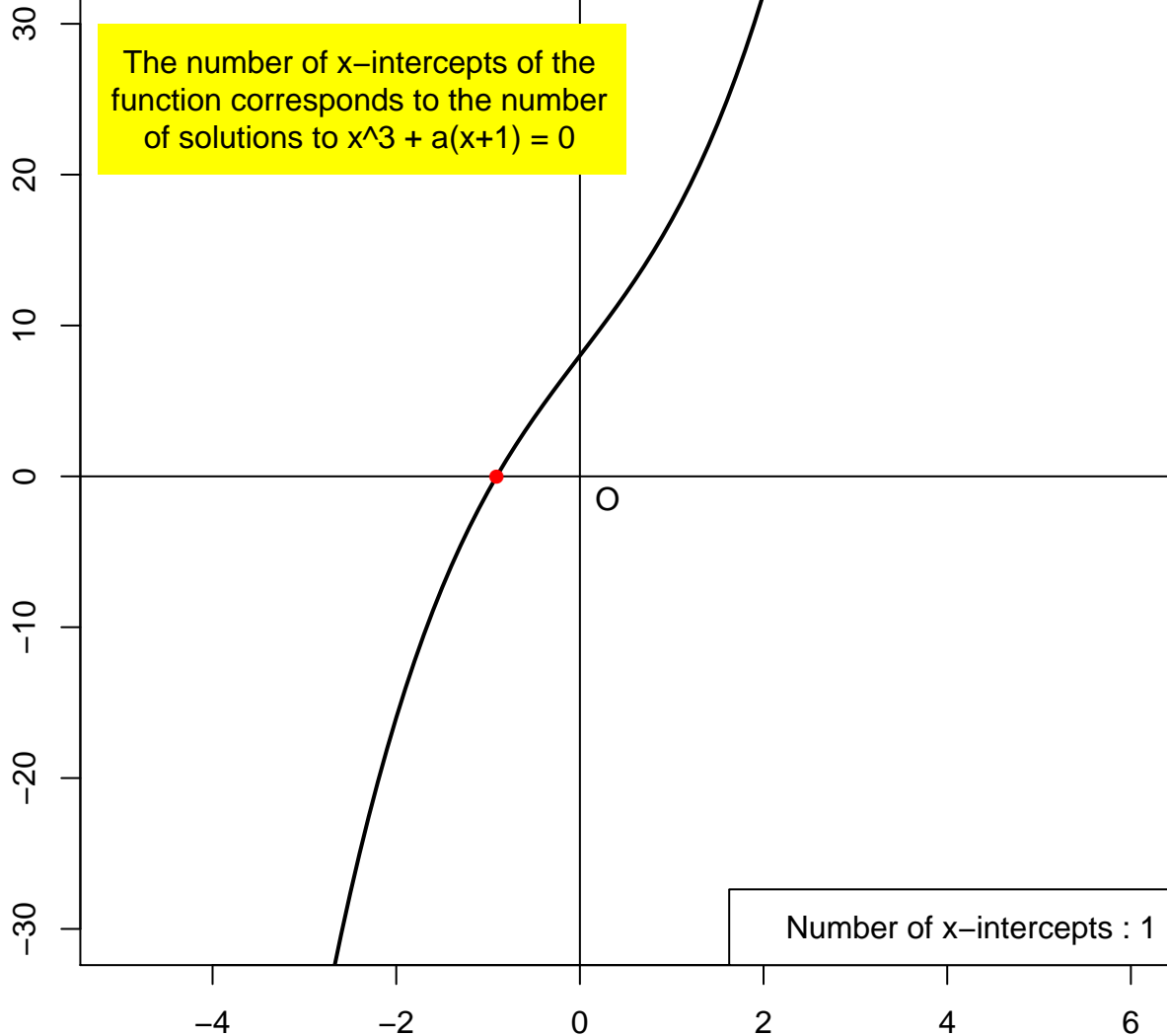
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1

x

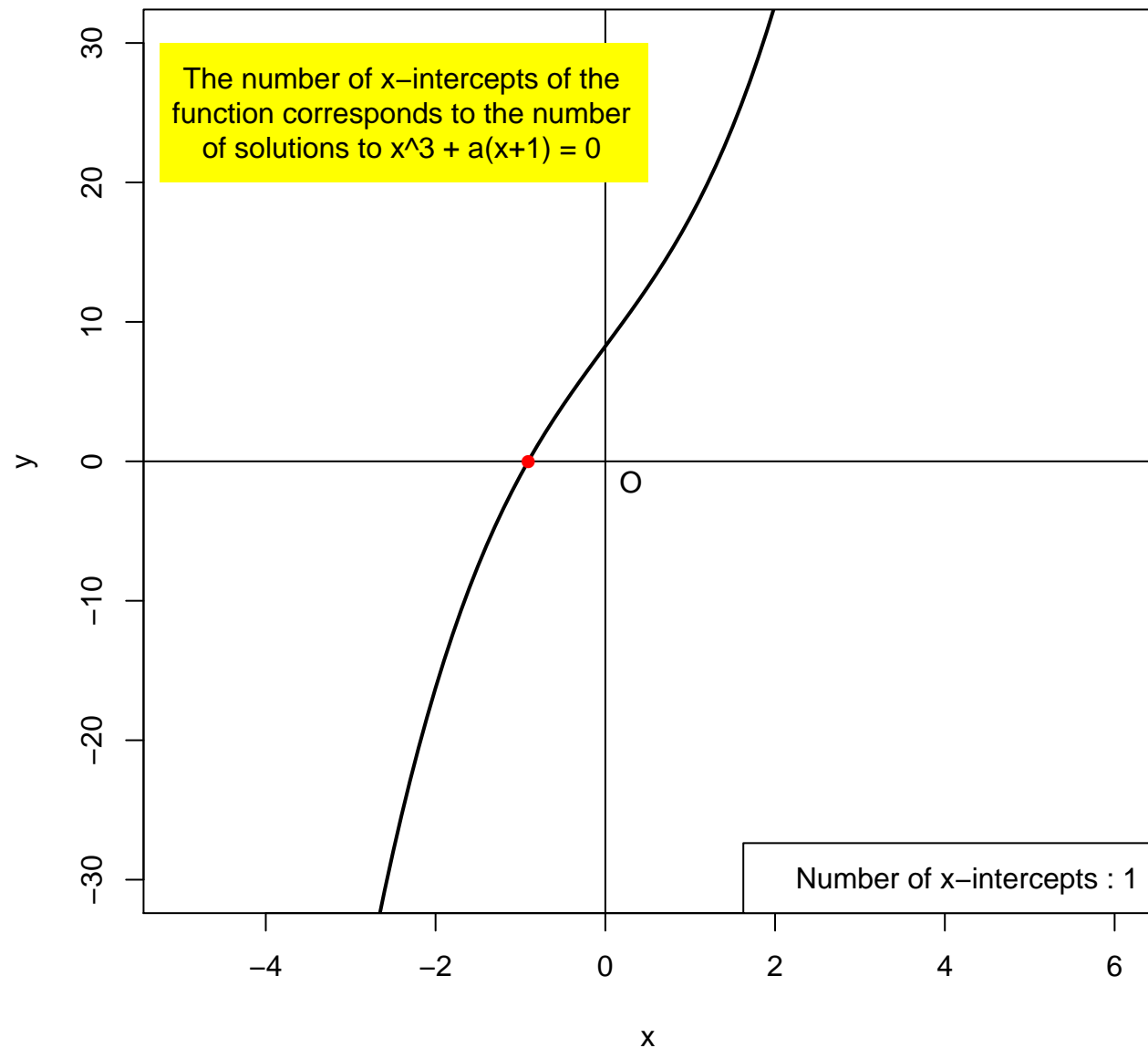
y

O



$$a = 8.25$$

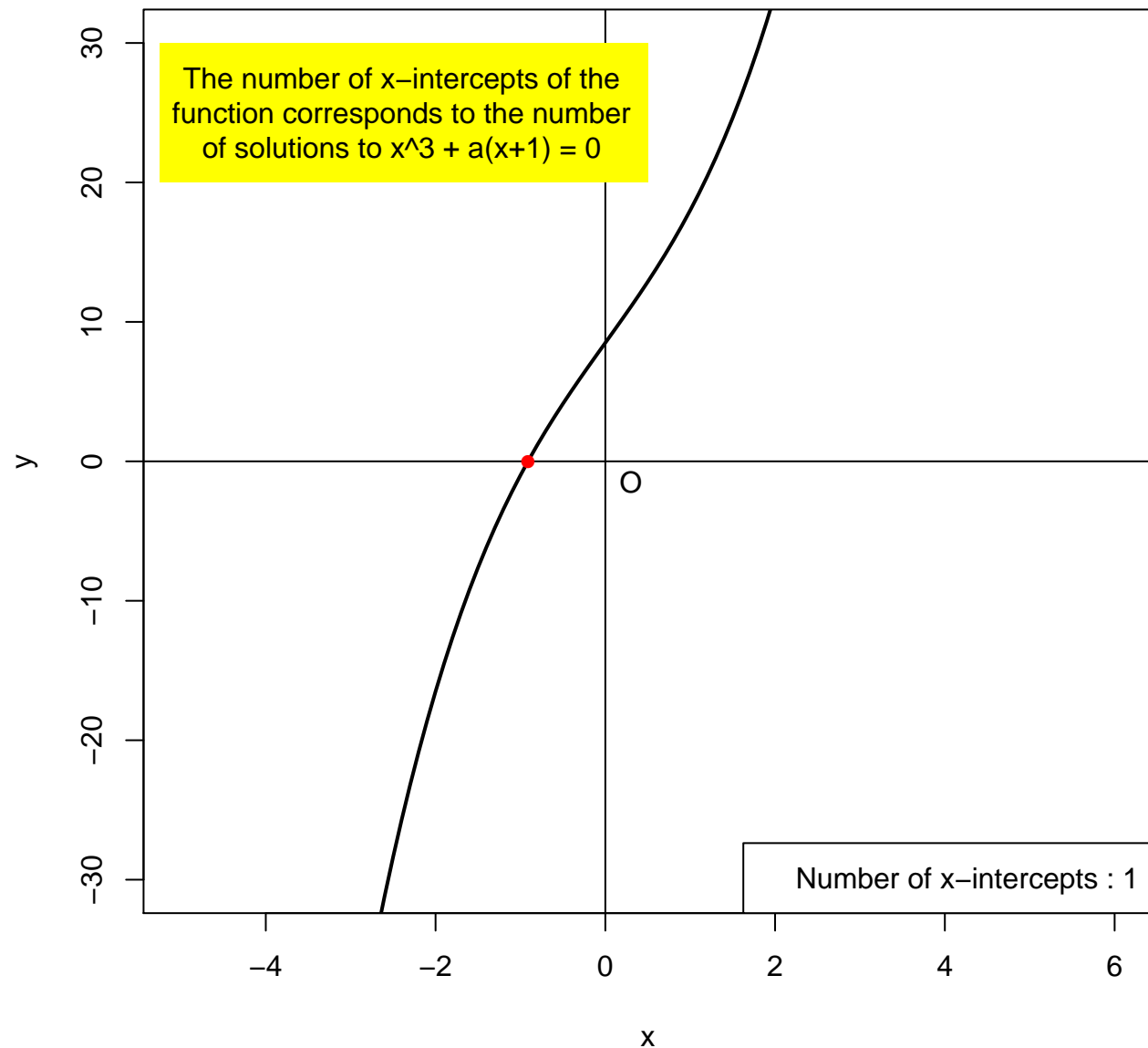
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$



$$a = 8.5$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

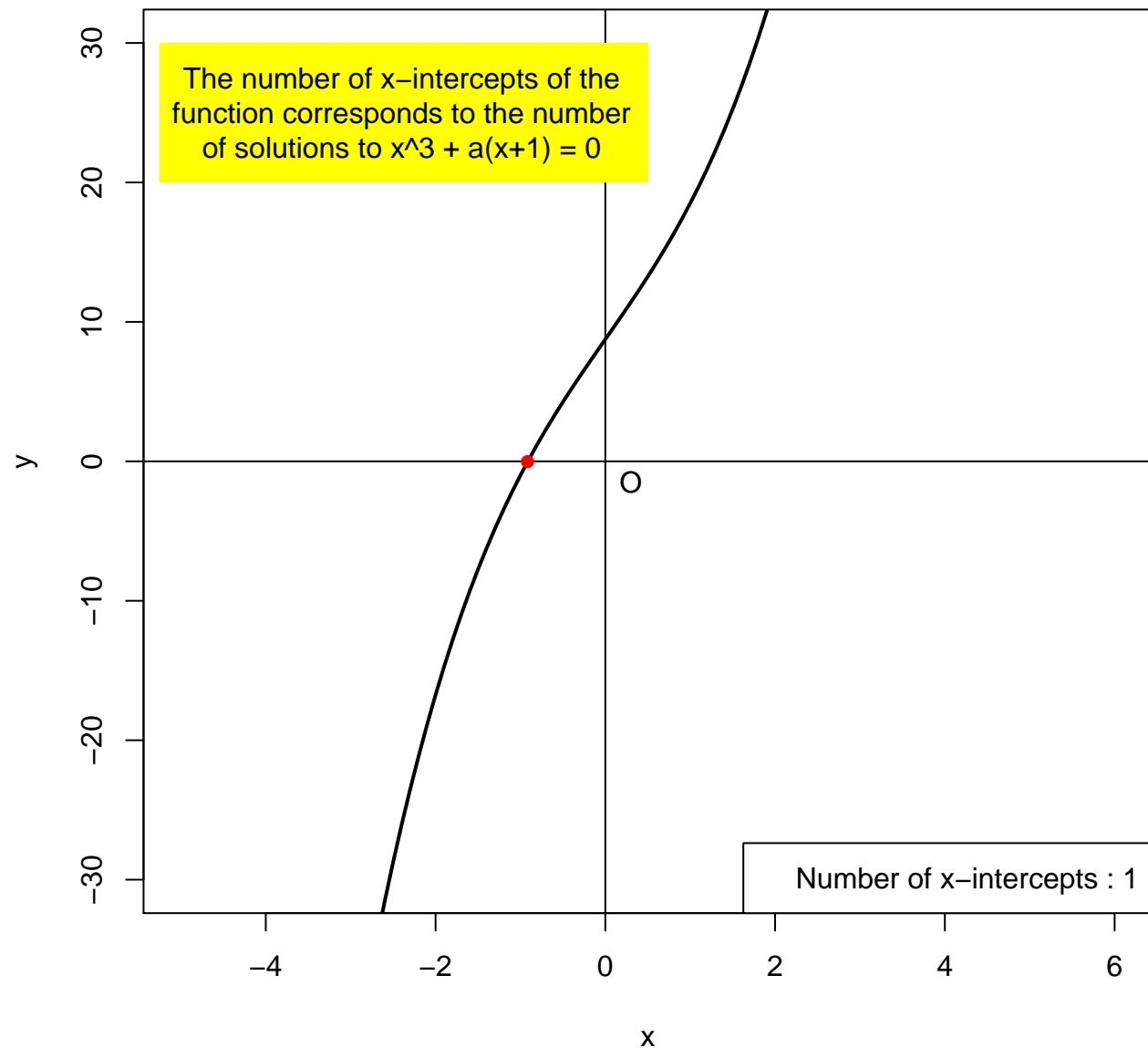
Number of x-intercepts : 1



$$a = 8.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

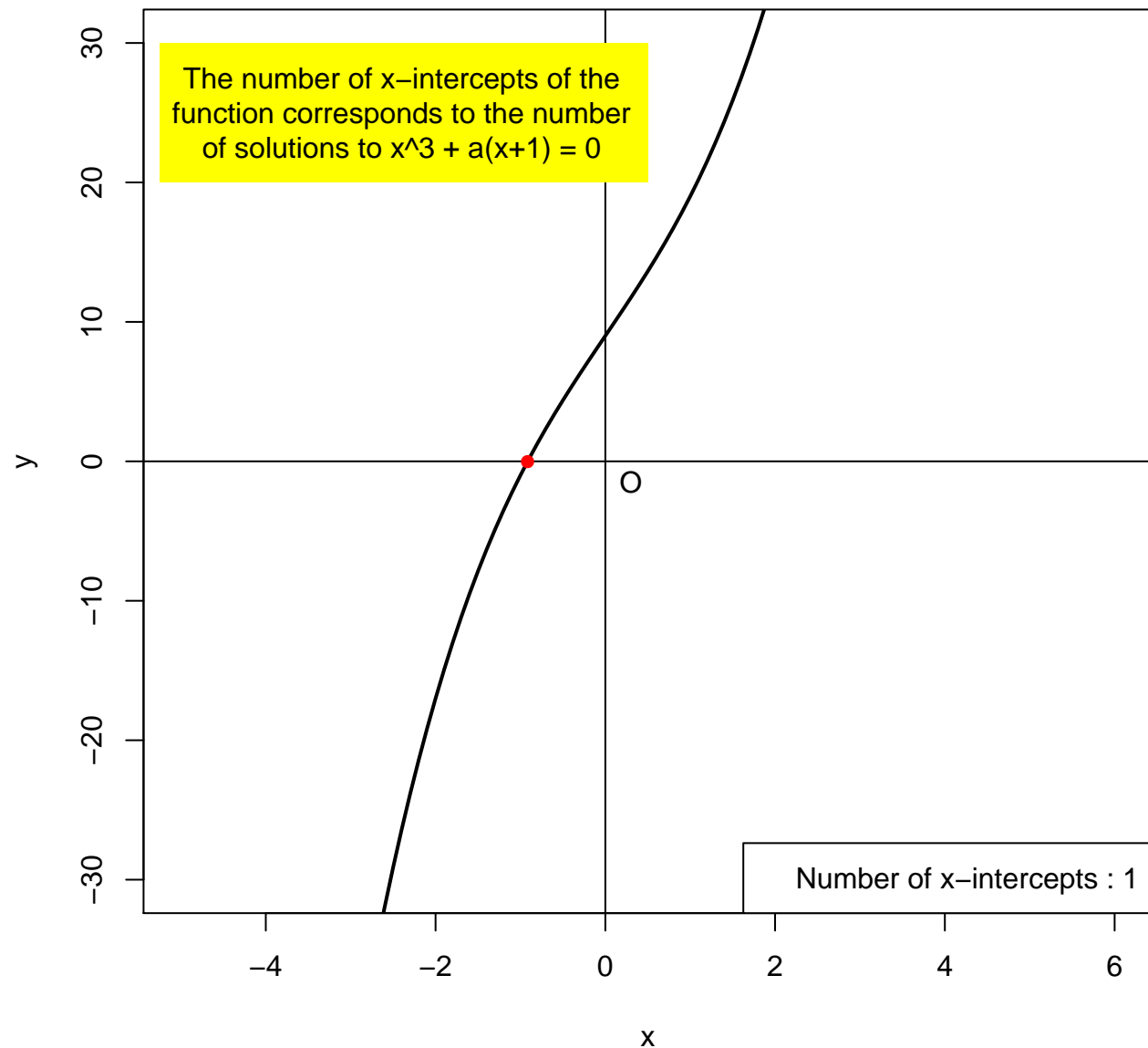
Number of x-intercepts : 1



**a = 9**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

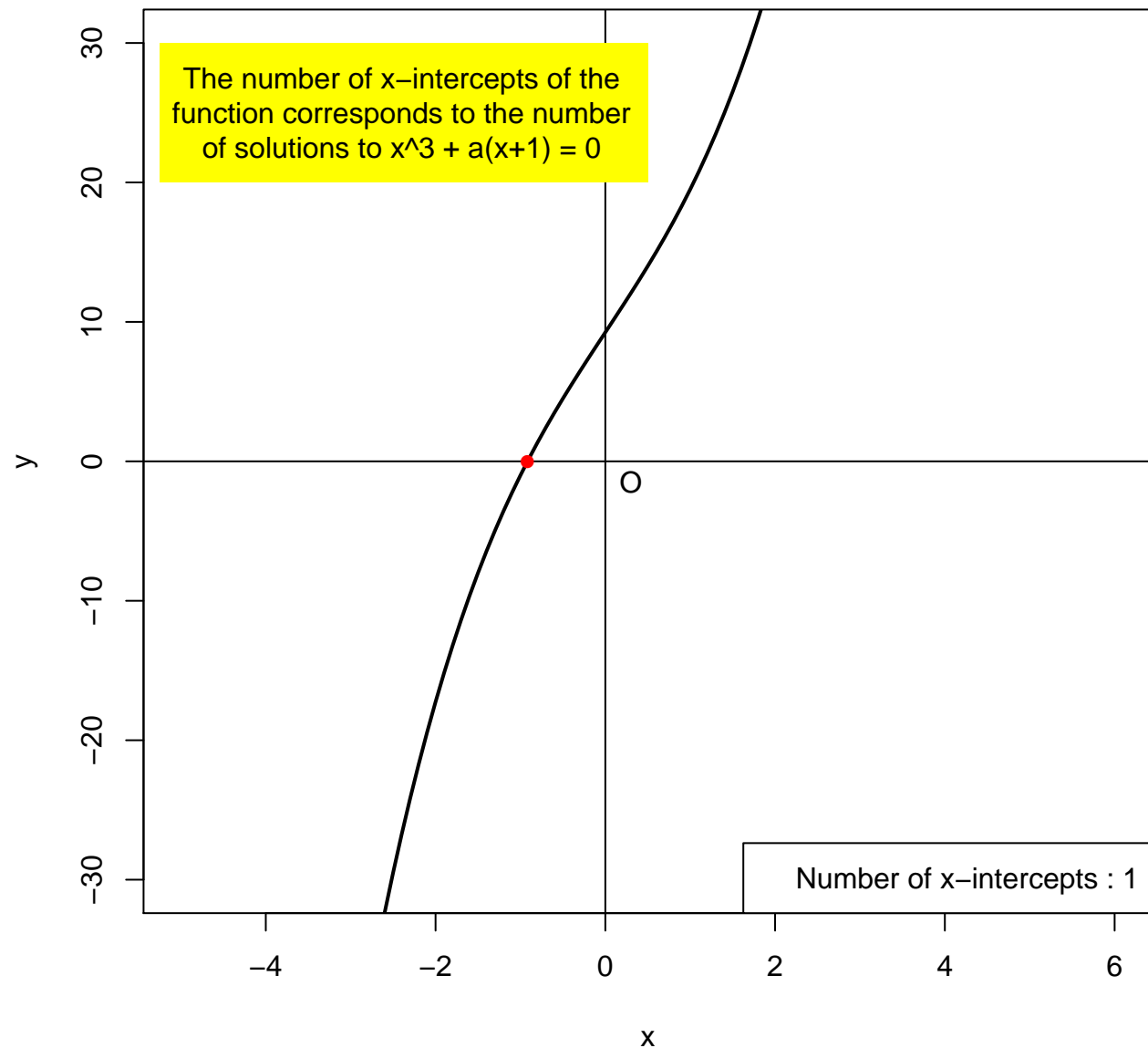
Number of x-intercepts : 1



$$a = 9.25$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1



**a = 9.5**

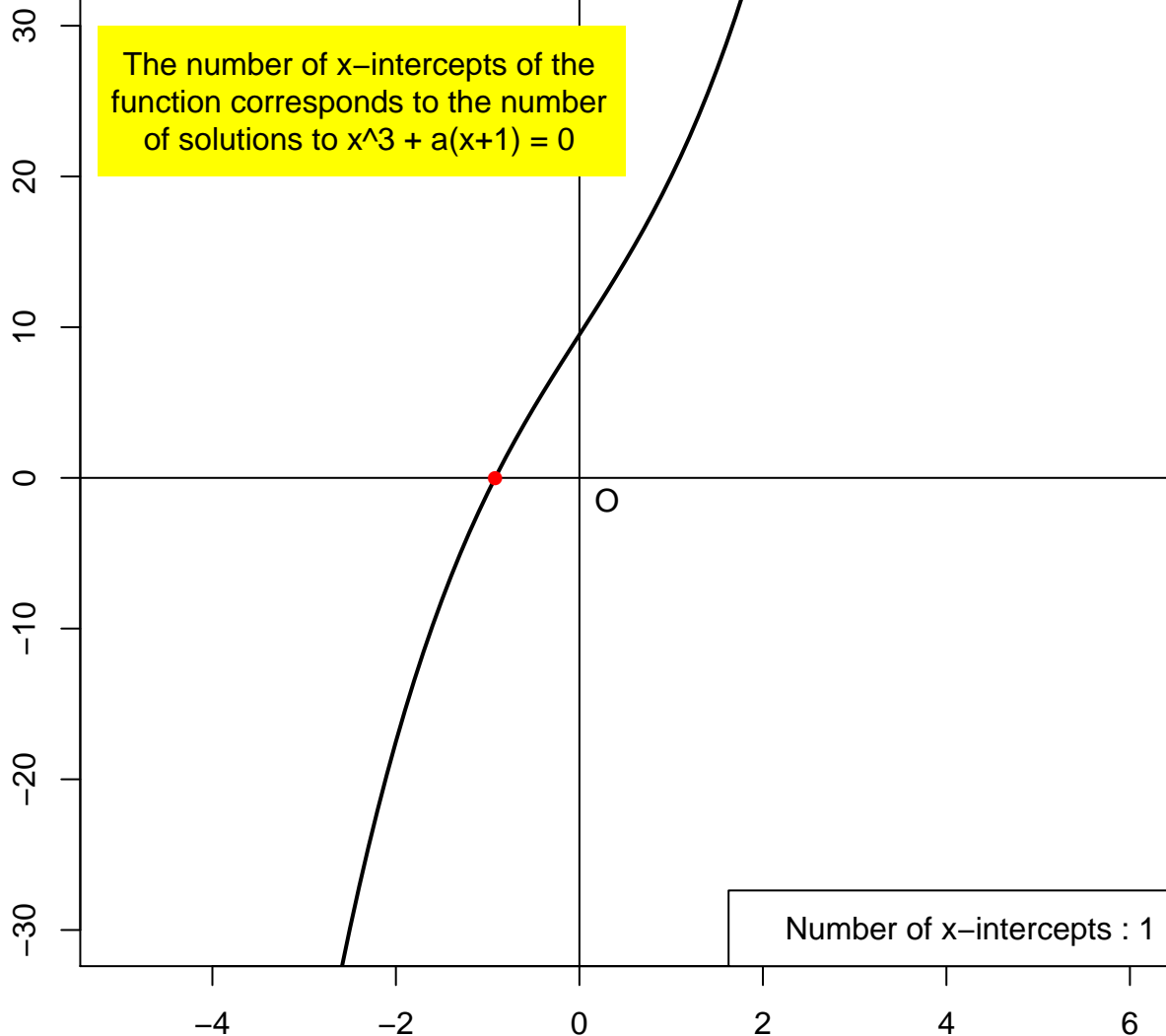
The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1

x

y

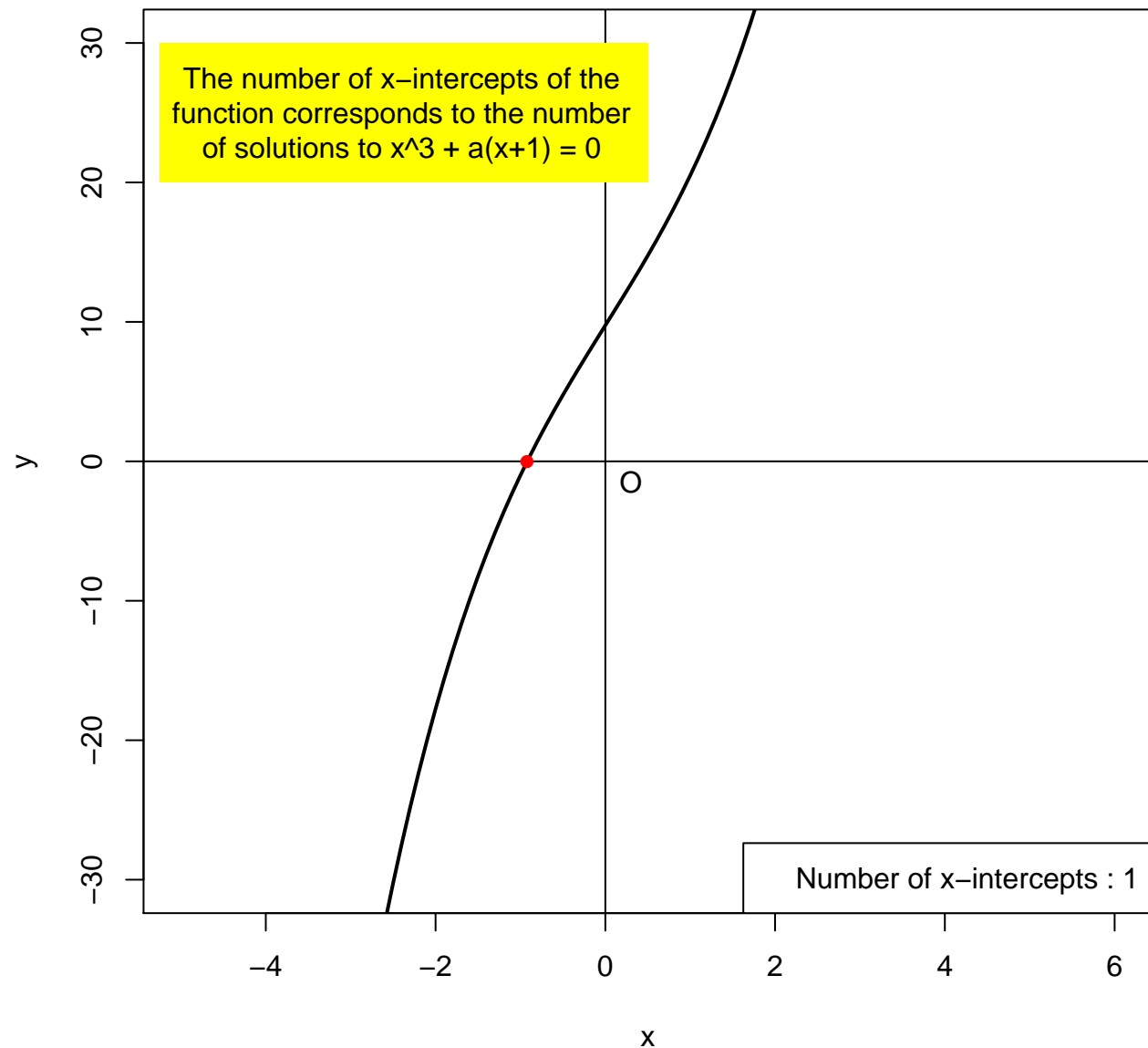
O



$$a = 9.75$$

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1





**a = 10**

The number of x-intercepts of the function corresponds to the number of solutions to  $x^3 + a(x+1) = 0$

Number of x-intercepts : 1

