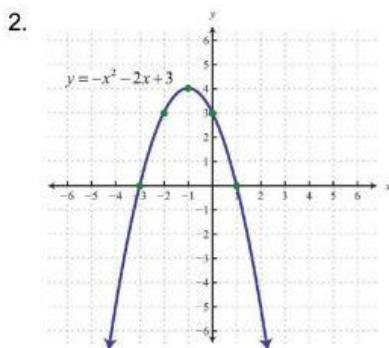


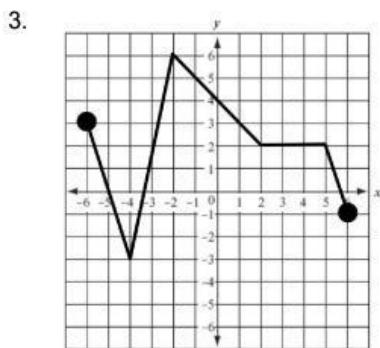
Does the graph have a maximum or minimum?

a) minimum      b) neither  
 c) maximum      d) both



Does the graph have a maximum or minimum?

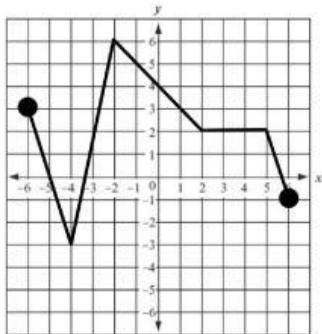
a) both      b) max  
 c) neither      d) min



Find the x-intercept(s) of the graph shown.  
 (Pick all answers that apply)

a) (-3.3, 0)      b) (-5, 0)  
 c) (0, 4)      d) (5.6, 0)

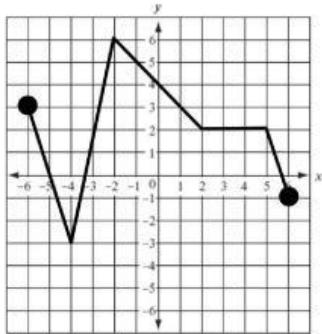
4.



Find the y-intercept(s) of the graph shown.

a)  $(-5, 0)$   
 b)  $(-3.3, 0)$   
 c)  $(0, 4)$   
 d)  $(5.6, 0)$

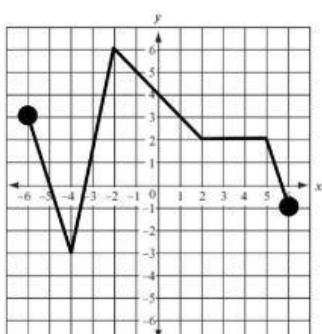
5.



Find the interval(s) of increase of the graph shown.

a)  $(-6, -4)$   
 b)  $(-4, -2)$   
 c)  $(5, 6)$   
 d)  $(2, 5)$   
 e)  $(-2, 2)$

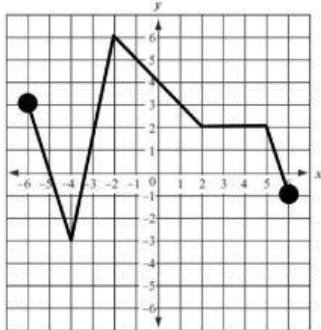
6.



Find the interval(s) of decrease of the graph shown.  
 (There is more than one answer)

a)  $(-4, -2)$   
 b)  $(-6, -4)$   
 c)  $(5, 6)$   
 d)  $(2, 5)$   
 e)  $(-2, 2)$

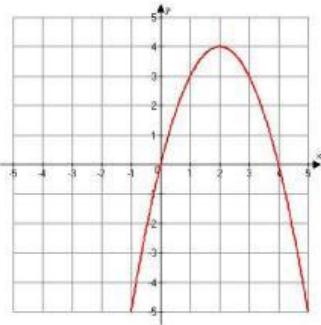
7.



Find the interval(s) where the graph remains constant.

- a)  $(-6, -4)$
- b)  $(-2, 2)$
- c)  $(-4, -2)$
- d)  $(5, 6)$
- e)  $(2, 5)$

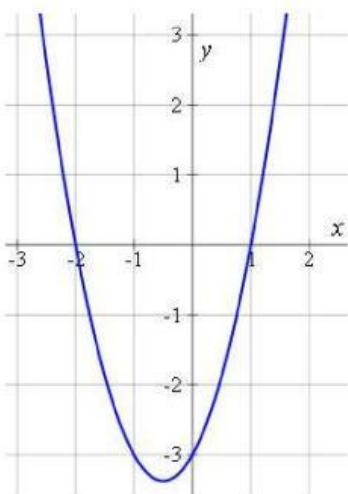
8.



What are the zeros?

- a) 2 and 3
- b) 0 and 2
- c) 0 and 4
- d) -4 and 0

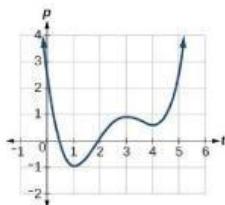
9.



What is the minimum of this graph?

- a)  $(-0.5, -3.5)$
- b)  $(3, 0)$
- c)  $(-2, 6)$
- d)  $(-1, -3)$

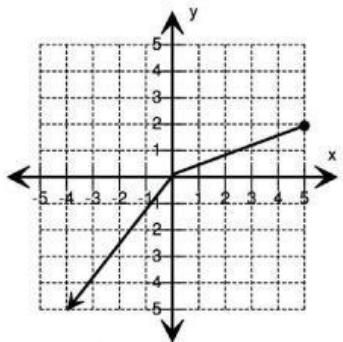
10.



How many roots does the function have?

a) 1      b) 3  
c) None      d) 2

11.



Where is the function increasing?

a)  $[0, 2]$       b)  $(-\infty, 0]$   
c)  $(-\infty, 5]$       d)  $(-\infty, 2]$

12.

x	y
-2	3
-1	5
0	7
1	9
2	11

What is the y-intercept?

a)  $(0, 0)$       b)  $(0, 7)$   
c)  $(1, 9)$       d)  $(2, 11)$

13.

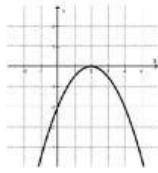
x	y
0	-3
4	-2
8	-1
12	0
16	1
20	2

What is the x-intercept?

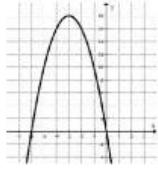
a) (0,0)      b) (8,-1)  
 c) (12,0)      d) (0,-3)

14. Which function has a maximum at (2, 0)?

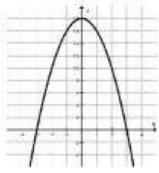
a)



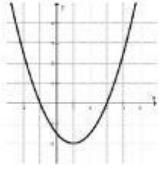
c)



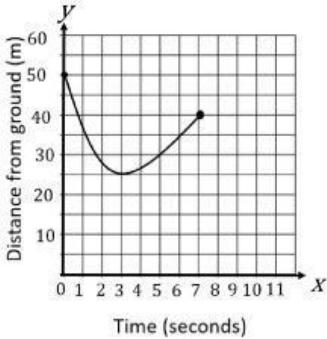
b)



d)



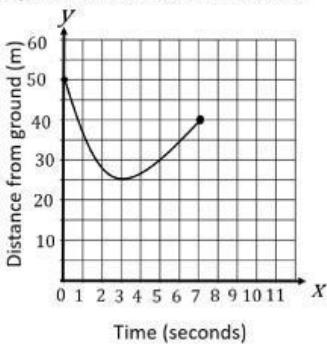
15. Spiderman Distance from Ground



What is the interval of increase?

a) From 3 to 7      b) From 50 to 25  
 c) From 0 to 3      d) From 25 to 40

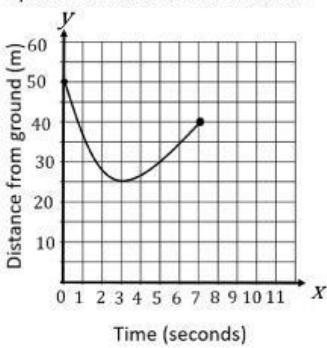
## 16. Spiderman Distance from Ground



What is the interval of decrease?

- a) From 25 to 40
- b) From 3 to 7
- c) From 50 to 25
- d) From 0 to 3

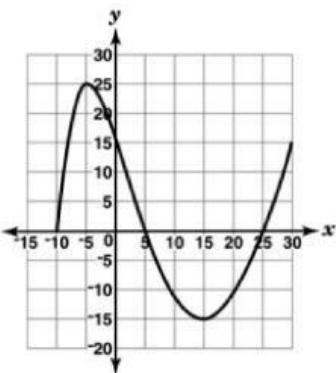
## 17. Spiderman Distance from Ground



Let's call the graph  $f(x)$ . Find  $f(5) = \underline{\hspace{2cm}}$

- a) 35
- b) 30
- c) 25
- d) 40

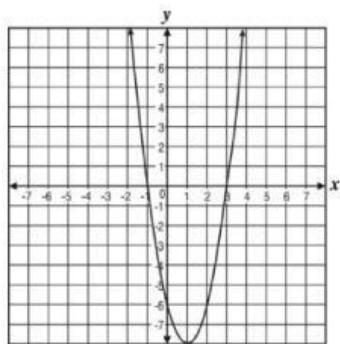
## 18.



Look at the function that is graphed, what are the maximum and minimum values of this function?

- a) maximum 30, minimum -10
- b) maximum 15, minimum -5
- c) maximum 25, minimum -10
- d) maximum 25, minimum -15

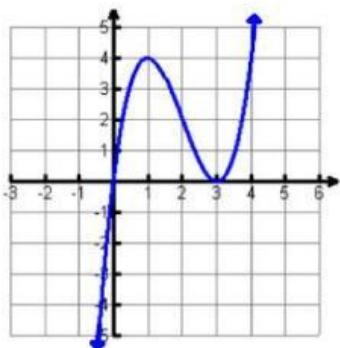
19.



What are the roots of the function?

- a) -1 and -3
- b) 3
- c) -6, -1, and -3
- d) -6

20.



Identify the relative maximum:

- a) (1, 4)
- b) (3, 0)
- c) (0, 3)
- d) (4, 1)