

MODEL EXAMEN ADMITERE X

* Obligatorii

1

Check if 3 is the solution of the inequality: *
(1 punct)

$$3x - \frac{1}{2} \leq 5.6$$

2

Calculate :
(1 punct)

$$3^{-\frac{1}{2}} \times \sqrt{3^2}$$

3

a) Find the vertex for the quadratic function below.
b) Find the x-intercept for the function. *
(2 puncte)

$$f(x) = 3x^2 - 2x + 1$$

4

Students at a certain school got the following results on the test: 10, 10,10, 15,12, 20, 21.

Find the average, mode and median in this order. *

(3 puncte)

5

Find the intersection between the lines of equations : *

(1 punct)

$$2x + y = 6 \text{ and } y = x - 3$$

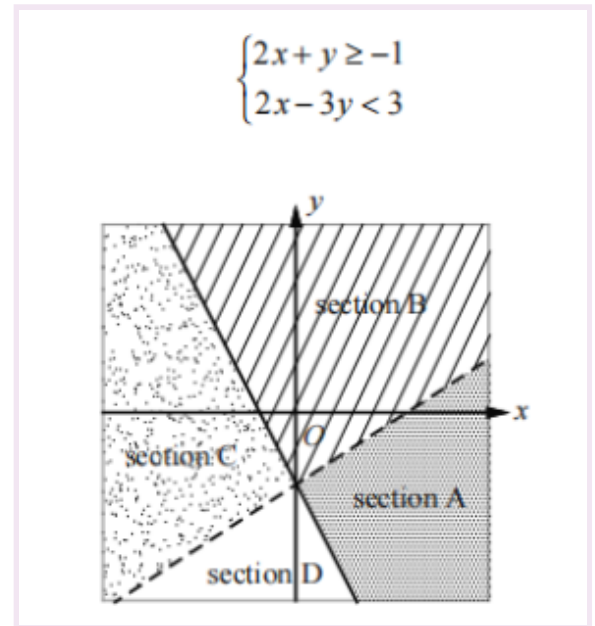
6

Find the equation of the line that passes through point (2, -1) and has slope -1 ? *

(1 punct)

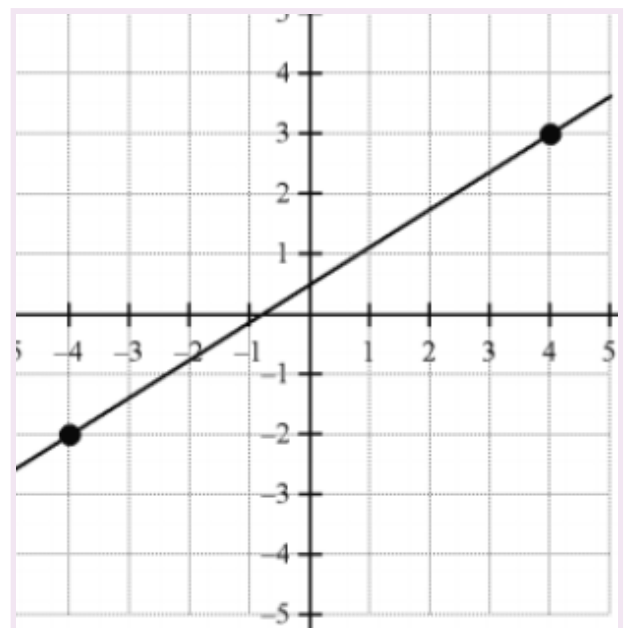
7

A system of inequalities and a graph are shown on the right.
Which section or sections of the graph could represent all of the solutions to the system ? *
(1 punct)



8

Find the equation of the line in the next figure. *
(1 punct)

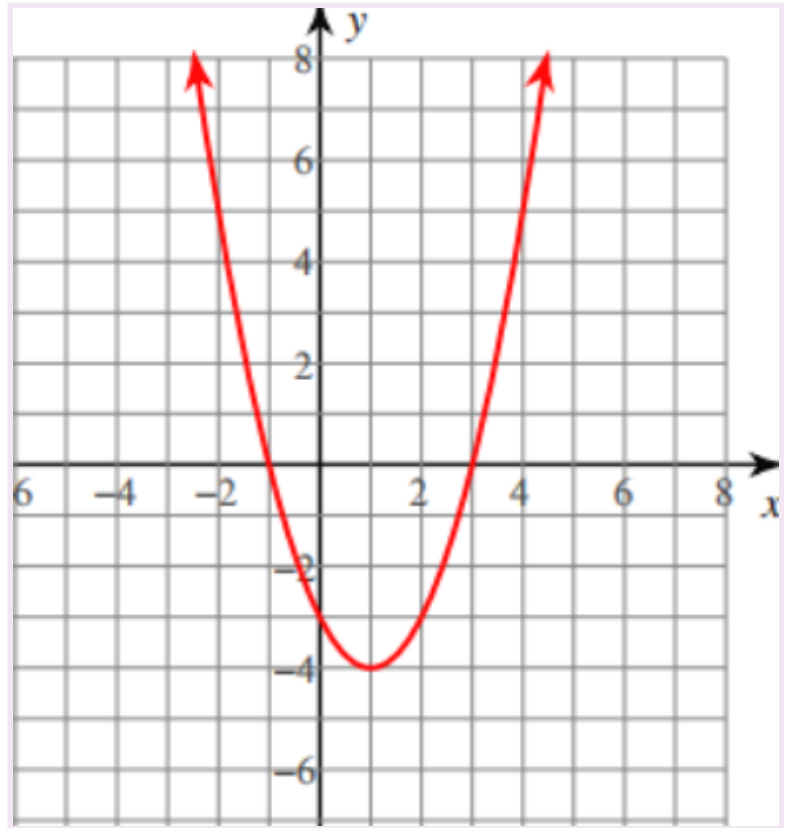


9

Find :

a) the y-intercept

b) equation for quadratic function associated with the adjacent graph. *
(2 puncte)



10

John's salary increases from \$ 1700 to \$ 2100. What is the percent increase of his salary ? *

(1 punct)

A football is kicked into the air. Its height h , in meters, after t seconds is given by the equation below.

a) How high is the ball after 1 second?

b) Find the maximum height of the ball to one decimal place. *

(2 puncte)

$$h(x) = -2x^2 + 3x + 1$$

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