Online Exams

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$$f(x) = \frac{x^2 + 7}{3x - 1}.$$

Find f ' (-1).

Hint : Differentiate the function and Substitute -1.

Answer:

Question 8
Not yet answered
Marked out of 3.00
Flag question

N Refers to all the positive integers. (Called as Natural Numbers)

$$f: N \rightarrow N \; f(n) = x^3 - 3$$

Is *f* a One to one function? Choose...

Is *f* an onto function? Choose...

Does *f* has an inverse function? Choose...

Next page

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Find the following definite integral.

$$\int_1^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer:

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Flag question

Simplify the following boolean expression.

$$\overline{A}\,B\overline{C} + A\,\overline{B}\,\overline{C} + \overline{A}\,\overline{B}\,\overline{C} + \overline{A}\,\overline{B}\,\overline{C}$$

Select one:

- $\bar{A}\bar{B}\bar{C}$
- $\bar{B}\bar{C}$
- $(\bar{A} + \bar{B})\bar{C}$
- $(\dot{A} + \bar{B})\bar{C}$
- None of the above

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1 2 3
8 9 10 11
15 16 17 18
22 23 24 25
29 30 31 32
Finish attempt ...
Time left 1:40:01

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$$f(x) = (x^2 - 5)(x^3 - 2x + 3)$$

Find f ' (-2).

Hint : Differentiate the function and Substitute -2.

(No spaces should be in the answer)

Answer:

Next page

$$f(x)=(\frac{1}{x}-3)\frac{x^2+3}{2x-1}$$

Find f ' (-1).

Hint : Differentiate the function and Substitute -1.

(Write your answer as a fraction. Eg: 23/2

No spaces should be in the answer)

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Flag question

Consider the following function.

$$f(x) = x^4 - x^2 + 20$$

1. Find f ' (6) :

2. Find the definite integral of f(x) from -1 to 2 :

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Question 1

Not yet answered

Marked out of 2.00

Flag question

Consider the following function.

$$f(x) = x^4 - x^2 + 20$$

1. Find f ' (6) :

2. Find the definite integral of f(x) from -1 to 2 :

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Finish attempt ...

Time left 1:59:22

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Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(9+x)}{3}$$

Find $g^{-1}(2)$

Hint : Find the inverse of g and substitute 2.

Answer:

Question 19

Simplify the following boolean expression:

$$A\bar{B}\bar{C} + \bar{A}B\bar{C} + AB\bar{C} + A\bar{B}C$$

- $A\bar{C} + \bar{B}\bar{C}$
- $A\bar{C} + \bar{B}C$
- $AC + B\bar{C}$
- $A\bar{C} + B\bar{C}$
- None of the above

Simplify the following boolean expression.

$$AB + ABC + A\,\overline{B}\,\overline{C} + A\,\overline{C}$$

Select one:

- $A(\overline{B} + C)$
- A
- $C + \overline{B}$
- $A(B + \overline{C})$
- None of the above

N Refers to all the positive integers. (Called as Natural Numbers)

$$f: N \rightarrow N \; f(n) = x^5 - 2x + 1$$

Is *f* a One to one function? Choose...

Is *f* an onto function? Choose...

Does *f* has an inverse function? Choose...

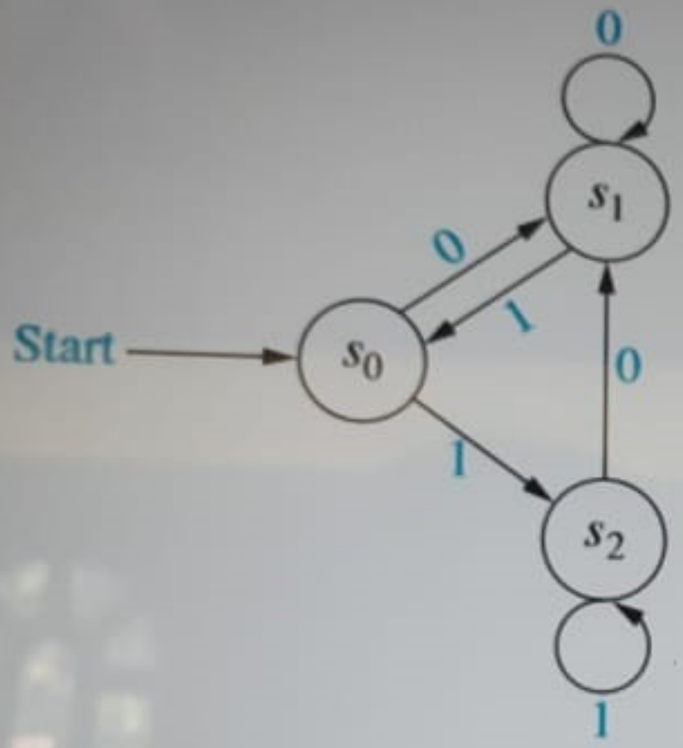
Question 13

Not yet answered

Marked out of 4.00

Flag question

Cons the following finite state Machine A.



What is the initial State?

To what state does A go if 100101001 input to A in sequence starting from the initial state?

Find N(s1, 0)

Find N(S2, 0)

Choose...

Choose...

S0

S1

S2

Quiz navigation

Finish attempt ...

Time left 0:46:43

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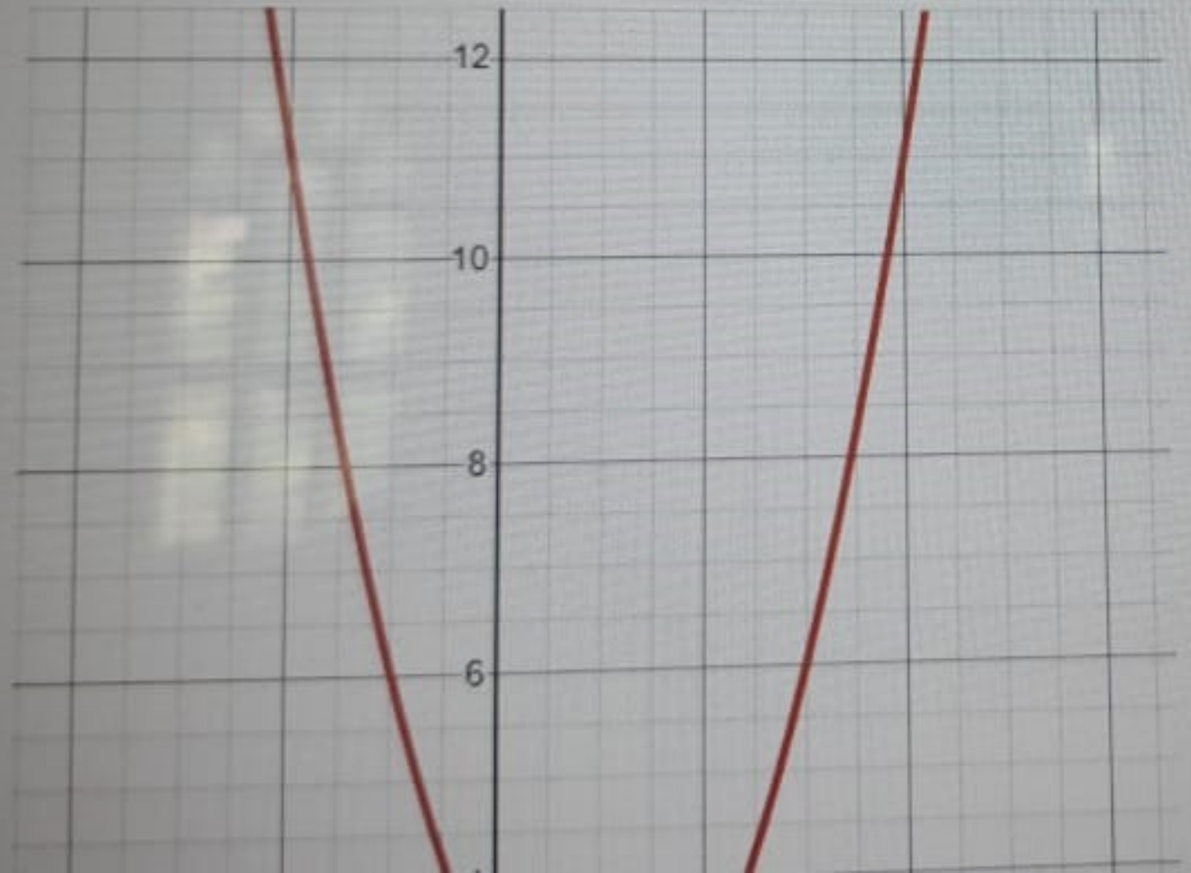
Question 11

Not yet answered

Marked out of 1.00

Flag question

Graph of $y = X^2 - 2x + 3$ is given below. Find the area under the curve from -2 to 4. (Round your answer to 2 decimal places)



Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 5)}{4}$$

Find $g^{-1}(-5)$

Hint : Find the inverse of g and substitute -5.

Answer:

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N Refers to all the positive integers. (Called as Natur
Numbers)

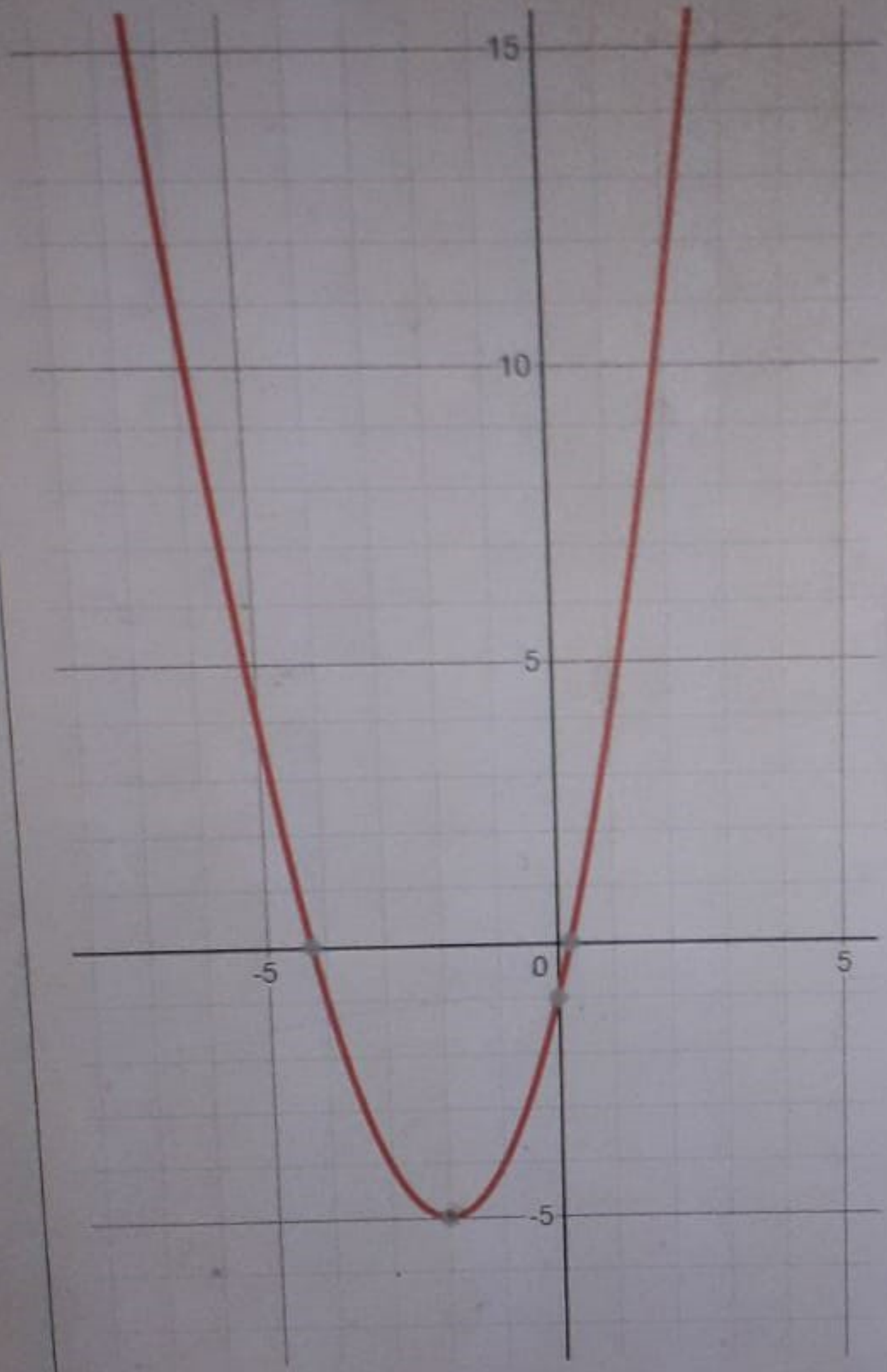
$$f: N \rightarrow N \quad f(n) = n^3 + 3$$

Is *f* a One to one function? Choose...

Is *f* an onto function? Choose...

Does *f* has an inverse function? Choose...

Graph of $y = X^2 + 4x - 1$ is given below. Find the area under the curve from -
(Round your answer to 2 decimal places)



Answer:

$$f(x)=\frac{x^2+1}{5x-3}$$

Find f ' (-1).

Hint : Differentiate the function and Substitute -1.

(Write your answer as a fraction. Eg: 23/2
No spaces should be in the answer)

Answer:

n 8
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A = 111011 + 10001010

Find the 2's Complement of A.

(No spaces should be there in your answer)

Answer: 10101011

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Flag question

N Refers to all the positive integers. (Called as Natural Numbers)

$$f: N \rightarrow N \; f(n) = x^3 - 2x + 1$$

Is *f* a One to one function? No

Is *f* an onto function? No

Does *f* has an inverse function? No

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(-2x+1)}{3}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer:

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N Refers to all the positive integers. (Called as Natural Numbers)

$$f : N \rightarrow N \; f(n) = x^4 - 2x + 1$$

Is *f* a One to one function? Choose...

Is *f* an onto function? Choose...

Does *f* has an inverse function? Choose...

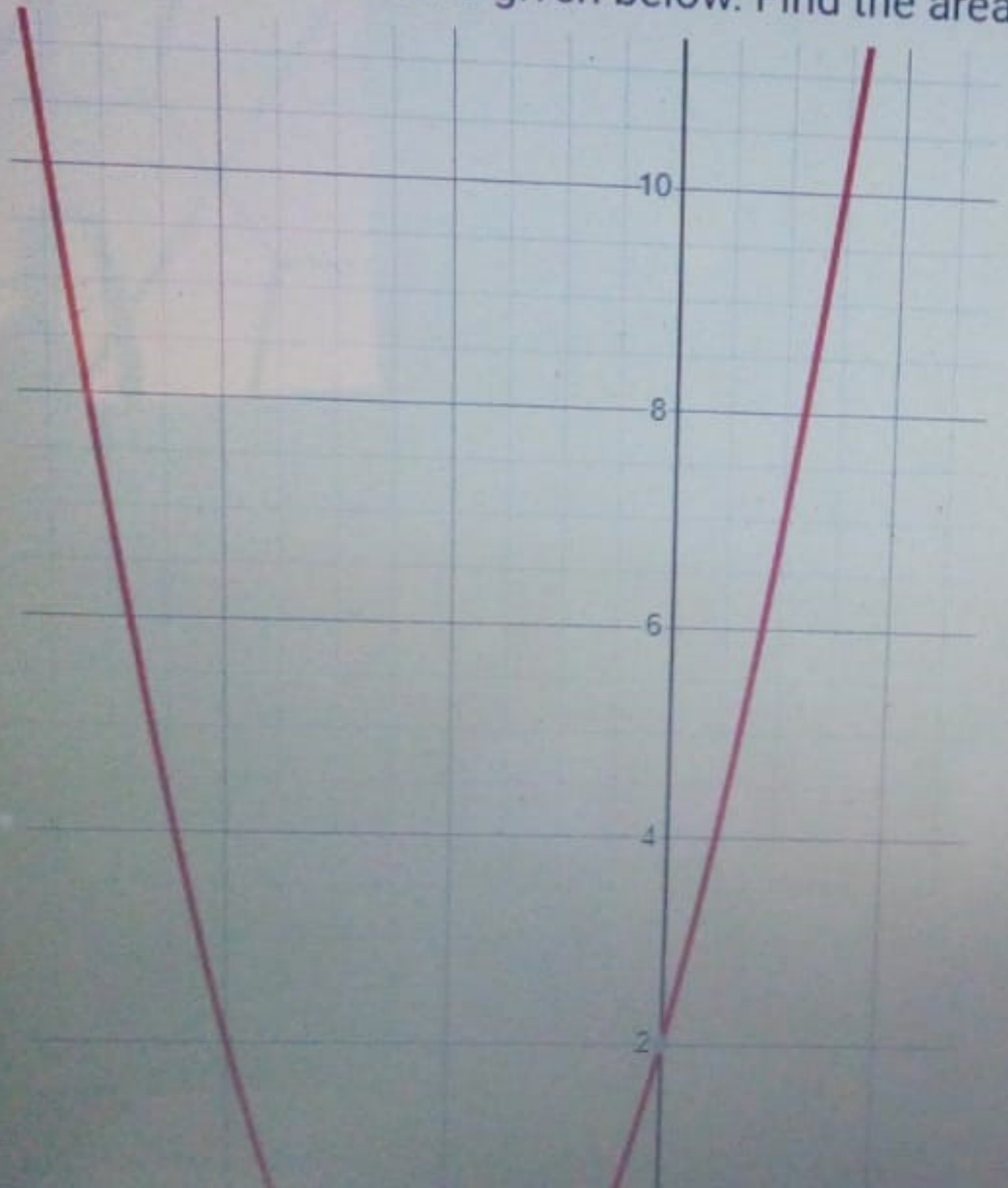
Question 3

Not yet answered

Marked out of 1.00

Flag question

Graph of $y = X^2+4x+2$ is given below. Find the area under the curve from -4 to 2.



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Finish attempt

Time left 1:38:

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N Refers to all the positive integers. (Called as Natural Numbers)

$$f:N \to N \quad f(n) = n+3$$

Is *f* a One to one function? Yes

Is *f* an onto function? Yes

Does *f* has an inverse function? Yes

If |A| = 64 then find the cofactor matrix of A.

$$A = \begin{bmatrix} 0 & 2 & 5 \\ 4 & x & 3 \\ 2 & 1 & -4 \end{bmatrix}$$

C_{11} Choose...

C_{12} Choose...

C_{13} Choose...

C_{21} Choose...

C_{22} Choose...

C_{23} Choose...

C_{31} Choose...

C_{32} Choose...

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ag question

How many different license plates can be made if each plate contains a sequence of three uppercase English letters followed by three digits (and no sequences of letters are prohibited, even if they are obscene)?

Answer:

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