Unit 01: Basic Tools of Optimization in Economics

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1. Unit 01: Basic Tools of Optimization in Economics

- 4. Chapter: Unit 01: Basic Tools of Optimization in Economics
- 1. Unit 01: Basic Tools of Optimization in Economics Questions

4.1.1. Given this function, x?-(1/5)x, what is the first derivative?

Author: Tony Pizur

Given this function, x?-(1/5)x, what is the first derivative?

Please choose only one answer:

- 9x?-(1/5)
- 9x?+(1/5)
- -9x?-(1/5)
- -9x?+(1/5)

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4.1.2. Suppose a person starts at position x=1. Assume that the person's n...

Author: Tony Pizur

Suppose a person starts at position x=1. Assume that the person's next discreet choice on a decision tree is to either move to x=0 or x=2 and the results of that choice are governed by the equation, x^3-3x+3 . What is the correct choice and associated economic justification?

Please choose only one answer:

- Move to 0 because f?(2)>f(0) and f?(1)=0 and f?(x)>0 for x ?[0,2].
- Move to 0 because |f?(2)|>|f?(0)| and f?(1)=0 and f?(x)<0 for x ?[0,2].
- Move to 2 because |f?(2)|>|f?(0)| and f?(1)=0 and f?(x)>0 for x ?[0,2].
- Move to 2 because f?(2)<f?(0) and f?(1)=0 and f?(x)>0 for x ?[0,2].

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Interactive Question: http://www.quizover.com/question/suppose-a-person-starts-at-position-x-1-assume-tony-regis-math?pdf=3044 4.1.3. Given this function, x?-(1/5)x, what is the second derivative?

Author: Tony Pizur

Given this function, x?-(1/5)x, what is the second derivative?

Please choose only one answer:

- 20x³-(1/5)
- (5/4)x³
- 5x?
- 20x³

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4.1.4. Given this function, x?-5x, what is the maximum value for x ? \pm 1.5?

Author: Tony Pizur

Given this function, x?-5x, what is the maximum value for x ? ±1.5?

Please choose only one answer:

- -4
- 0
- +4
- EMPTY

Check the answer of this question online at QuizOver.com: Question: Given this function x -5x what is the maximum Tony Pizur @Regis Math

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4.1.5. Given this function, x?-5x, what is the minimum value for x ? \pm 1.5?

Author: Tony Pizur

Given this function, x?-5x, what is the minimum value for x ? ± 1.5 ?

Please choose only one answer:

- -4
- 0
- +4
- EMPTY

Check the answer of this question online at QuizOver.com: Question: Given this function x -5x what is the minimum Tony Pizur @Regis Math

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4.1.6. Given this function, x?-5x, what is the maximum value for all value...

Author: Tony Pizur

Given this function, x?-5x, what is the maximum value for all values of x?

Please choose only one answer:

- -4
- 0
- +4
- EMPTY

Check the answer of this question online at QuizOver.com: Question: Given this function x -5x what is the maximum Tony Pizur @Regis Math

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4.1.7. Given this function, x?-5x, what is the minimum value for all value...

Author: Tony Pizur

Given this function, x?-5x, what is the minimum value for all values of x?

Please choose only one answer:

- -4
- 0
- +4
- EMPTY

Check the answer of this question online at QuizOver.com: Question: Given this function x -5x what is the minimum Tony Pizur @Regis Math

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4.1.8. Given this function, $ln(x^3)+y^2+x^{(0.5)}$, what is the derivative with...

Author: Tony Pizur

Given this function, $ln(x^3)+y^2+x^{(0.5)}$, what is the derivative with respect to x?

Please choose only one answer:

- -(0.5)/(x^(0.5))+(3/x)+2y
- $(0.5)/(x^{(0.5)})+(3/x)$
- (0.5)/(x^(0.5))-(3/x)
- $3\ln(x^2) + (0.5)/(x^{(0.5)})$

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4.1.9. Given this function, $ln(x^3)+y^2+x^{(0.5)}$, what is the double derivati...

Author: Tony Pizur

Given this function, $ln(x^3)+y^2+x^{(0.5)}$, what is the double derivative with respect to x?

Please choose only one answer:

- (-4x^(1.5))^(-1)-3x^(-2)
- 1/(4x^(1.5))-3/(x²)
- 6ln(x)+1/(4x^(1.5))
- -1/(4x^(1.5))-3/(x²)+2

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4.1.10. Given this function, $f(x)=x^3-3x+3$, for what values of x is there a ...

Author: Tony Pizur

Given this function, $f(x)=x^3-3x+3$, for what values of x is there a local maximum and minimum?

Please choose only one answer:

- (-2,0)
- (-1,1)
- (-2,2)
- There is none; there are only global maxima and minima.

Check the answer of this question online at QuizOver.com: Question: Given this function f x x -3x 3 for what values Tony @Regis Math

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