Not yet answered

Marked out of 2.00

▼ Flag question

The slope of the tangent to the curve

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

Select one:

- oa. -17
- O b. 1
- oc. 13
- Od. 5
- O e. 17
- of. None
- g. -13

Time left 1:23:20

Question 11

Not yet answered

Marked out of 2.00

Flag question

Suppose that $f(x) = \frac{g(x)}{x^2}$, g(2) = 2, and g'(2) = -2. Find f'(2).

Select one:

- \bigcirc a. $\frac{1}{16}$
- \bigcirc b. $-\frac{1}{16}$
- Oc. None
- \bigcirc d. 0
- e. 1
- \bigcirc f. -1

Not yet answered

Marked out of 2.00

Flag question

$$\int 2(\frac{1}{\sqrt{x}} + \frac{1}{x})dx =$$

Select one:

- oa. None
- O b. $\frac{1}{x^{3/2}} \frac{1}{x^2} + c$
- \bigcirc c. $4\sqrt{x} + 2\ln|x| + c$
- $\bigcirc d. \quad \frac{\sqrt{x}}{2} + \ln|x| + c$
- \bigcirc e. $\sqrt{x} + \ln|x| + c$

Question 20

Not yet answered

Marked out of 2.00

▼ Flag question

Suppose a company is considering an increase in price of its product. If doing so results in an increase in revenues, at this value of price the demand

Select one:

- oa. Elastic
- O b. Inelastic
- O c. Unitary elastic

Time left 1:14:06

Not yet answered

Marked out of 2.00

Flag question

If $30p = \ln\left(\frac{q}{a^2 + 1}\right)$, q is quantity demanded at price p, find the rate of change of q with respect to p at q = 4. (write a number only)

Answer:

Question 14

Not yet answered

Marked out of 2.00

Flag question

Find the slope of the tangent to the curve $x^2 + 4x - 3y^2 = 0$ at the point (2, 2).

- oa. None

- b. $\frac{2}{3}$ c. $\frac{3}{4}$ d. $\frac{4}{3}$
- O e. 1

Flag question

Time left 1:20:46

Suppose that $f(x)=\frac{g(x)}{x^2}$, g(2)=2, and g'(2)=-2. Find f'(2).

Select one:

- \bigcirc a. $\frac{1}{16}$
- \bigcirc b. $-\frac{1}{16}$
- Oc. None
- \bigcirc d. 0
- e. 1
- **o** f. −1

Clear my choice

Question 12

Not yet answered

Marked out of 2.00

Flag question

The slope of the tangent to the curve

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

Select one:

- a. -17
- O b. 1
- o c. 13
- Od. 5
- O e. 17
- of. None
- g. -13

Clear my choice

INUL YEL ALISWELEU

Marked out of 2.00

▼ Flag question

Time left 0:48:49

$$\int \frac{6(\ln x)^2}{x} dx =$$

Select one:

- oa. None
- $\bigcirc b. \quad \frac{(\ln x)^3}{3} + C$
- $\bigcirc \ c. \ \frac{(\ln x)^3}{x} + C$
- $\bigcirc \ \text{d.} \ \frac{\ln x^3}{3} + C$
- \bigcirc e. $3 \ln x + C$
- \circ f. $2(\ln x)^3 + c$

Question 22

Not yet answered

Marked out of 2.00

Flag question

Find the present value (to the nearest integer)of \$40000 due in 4 years at an interest rate of 8% compounded semiannually.

Select one:

- oa. \$29401
- ob. \$31445
- Oc. \$30212
- od. \$29228
- o e. \$27112

Next page



ITC

Time left 1:23:56

Question 9

Not yet answered

Marked out of 2.00

Flag question

If
$$h(x) = \frac{f(x)}{g(x)}$$
, $f(5) = 5$, $g(5) = 2$, $f'(5) = -1$ and $g'(5) = -6$, then $h'(5) = -6$

- o a. 7
- Ob. -8
- O c. 8
- Od. -7
- o e. None
- Of. 14

Clear my choice

Question 10

Not yet answered

Marked out of 2.00

F Flag question

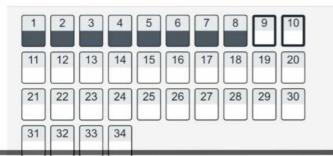
A market shortage occurs when

- o a. Quantity demand equals quantity supplied.
- O b. None
- c. Quantity demanded is greater than quantity supplied
- d. Quantity demanded is less than quantity supplied

Clear my choice

Next page

Quiz navigation



Not yet answered

Marked out of 2.00

Flag question

The demand for a contact

Let R(x) be the revenue function for a product, then the exact increase in revenue caused by the 45th unit is *

2 points

R'(45)

Option 1

R'(44)

Option 2

R(45) - R(44)

Option 3

R'(46) - R'(45)

Option 4

Back

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Not yet answered

Marked out of 2.00

▼ Flag question

A market **shortage** occurs when

- a. Quantity demand equals quantity supplied.
- b. None
- c. Quantity demanded is greater than quantity supplied
- d. Quantity demanded is less than quantity supplied

Not yet answered

Marked out of 2.00

Flag question

If
$$h(x) = \frac{f(x)}{g(x)}$$
, $f(5) = 5$, $g(5) = 2$, $f'(5) = -1$ and $g'(5) = -6$, then $h'(5) = -6$

- O a. 7
- Ob. -8
- O c. 8
- Od. -7
- O e. None
- Of. 14

Question 10

Not yet answered

Marked out of 2.00

Flag question

A market shortage occurs when

- a. Quantity demand equals quantity supplied.
- O b. None
- c. Quantity demanded is greater than quantity supplied
- d. Quantity demanded is less than quantity supplied

* Required

 $f(x) = (x^2 + 3x - 2)^3$, then f'(x) =

2 points

 $3(x^2 + 3x - 2)(2x + 3)$

Math235 Evaluation 1

Option 1

 $3(x^2 + 3x - 2)^2(2x + 3)$

Option 2

 $4x^3 + 9x^2$

Option 3

 $3(2x+3)^2$

Option 4

If f(x) and g(x) are two functions such that * 2 points

$$\lim_{x \to 2} f(x) = 4, \lim_{x \to 2} g(x) = -5, \text{ then } \lim_{x \to 2} (f(x) - 2g(x)) =$$

- O -1
- 0 9
- 14
- O -6

Find f(4) if
$$f(x) = \begin{cases} -x + 5, & x > 4 \\ x^2 - 2x, & x \le 4 \end{cases}$$

- O 4
- 8
- O 24
- Undefined

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$$f(x) = \frac{x+4}{x-4}, f'(x) =$$

$$\frac{8}{(x-4)^2}$$

$$\frac{-8}{(x-4)}$$

$$\frac{-8}{(x-4)^2}$$

If f(x) is a continuous function and $\lim_{x\to 5} f(x) = 2$, then f(5) = 2

- True
- O False

Let R(x) be the revenue function for a product, then the exact increase in revenue caused by the 45th unit is *

2 points

R'(45)

caused by the 45th unit is *

R'(45)

Option 1

R'(44)

Option 2

R(45) - R(44)

Option 3