Graded quiz on Tangent Lines to Functions, Exponents and Logarithms

NÚMERO TOTAL DE PONTOS 13

- - **○** 7⁻²
 - \bigcirc (7²)
 - \bigcirc 49⁻¹
 - \large \frac{7}{7^3}\end \{align\}
- 2. A light-year (the distance light travels in a vacuum in one year) is 9,460 trillion meters. Express in scientific notation.

1 ponto

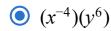
- \circ 9.46 × 10¹⁵ meters.
- \bigcirc 0.946 × 10¹⁶
- \bigcirc 9460 × 10¹² meters
- \bigcirc 9.46 × 10¹⁵ kilometers
- 3. Simplify $(x^8)(y^3)(x^{-10})(y^{-2})$

1 ponto

- $(x^{-2})(y)$
- $\bigcirc (x^2)(y)$
- $(x^{-80})(y^{-6})$
- $(x)(y^{-2})$
- 4. Simplify $[(x^4)(y^{-6})]^{-1}$

1 ponto

14/09/2020



- $(x^3)(y^{-7})$
- $\$ {\large \begin {align} \frac{(x^-{4})}{(y^6)}\end {align}}
- {\large \begin {align}\frac{(x^4)}{(y^{-6})}\end {align}}
- 5. Solve for x:

1 ponto

$$\log_2{(39x)} - \log_2{(x-5)} = 4$$

- \text{\lambda}\frac{\lambda}{23}\end \text{\align}
- \begin \{align\\\frac\{23\\\\end \{align\}\\
- 6. Simplify this expression:

1 ponto

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

- \circ x^{-1}
- $\bigcirc \chi^{\frac{1}{3}}$
- $\bigcirc \chi^{\frac{4}{3}}$
- $^{7.}$ Simplify log_{10} $1000 + log_{10}$ $\frac{1}{10000}$

1 ponto

2/5

0 1

- **●** −1
- \circ \log_{10} -10
- $\bigcirc \frac{1}{10}$
- 8. If $\log_3 19 = 2.680$, what is $\log_9 19$?

1 ponto

- 0.4347
- 1.304
- 0 5.216
- 0.8934
- 9. If $\log_{10} b = 1.8$ and $log_a b = 2.5752$, what is *a*?

1 ponto

- 5
- \bigcirc 3
- 0 6
- 0 4
- ^{10.} An investment of 1,600 is worth 7,400 after 8.5 years. What is the continuously compounded rate of return of this investment?

1 ponto

- 0 19.01%
- \circ 20.01

- 0 17.01%
- 18.02%
- ^{11.} A pearl grows in an oyster at a continuously compounded rate of .24 per year. If a 25-year old pearl weighs 1 gram, what did it weigh when it began to form?

1 ponto

- 0.0002478
- 0.2478
- 0.02478
- 0.002478
- ^{12.} $\log_2 z = 6.754$. What is $\log_{10}(z)$?

1 ponto

- 0.49185
- 0.82956
- 2.03316
- 0 1.3508
- ^{13.} Suppose that $g: R \to R$ is a function, and that g(1) = 10. Suppose that g'(a) is negative for every single value of a. Which of the following could possibly be g(1.5)?

1 ponto

- Q(1.5) = 11

Q(1.5) = 10.1	0.1	=	g(1	
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()	g(1	5)	_	11	12	1
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Eu compreendo que enviar um trabalho que não seja meu pode resultar em fracasso permanente deste
curso ou desativação de minha conta do Coursera.

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