Practice quiz on Exponents and Logarithms

NÚMERO TOTAL DE PONTOS 12

1. Re write the number $784 = 2 \times 2 \times 2 \times 2 \times 7 \times 7$ using exponents.

1 ponto

- \bigcirc (2⁶)(7⁶)
- \bigcirc (16⁴)(49²)
- $\bigcirc (2 \times 7)^6$
- $(2^4)(7^2)$
- 2. What is $(x^2 5)^0$?

1 ponto

- \bigcirc (x^2)
- $(x^2) 5$
- **○** -4
- 1
- 3. Simplify $((x-5)^2)^{-3}$

1 ponto

- $(x-5)^{-6}$
- $(x-5)^{-1}$
- $(x-5)^{-5}$
- \bigcirc (x-5)
- 4. Simplify {\large \begin {align}({\frac{8^2}{8^7}})^2\end {align}}

1 ponto

- 14/09/2020
 - **●** 8⁻¹⁰
 - 0 8-4
 - 0 8-5
 - 0.8^{-1}
 - 5. $\log 35 = \log 7 + \log x$

1 ponto

Solve for x

- () 4
- \bigcirc 7
- **6** 5
- O 28
- 6. $\log_2(x^2 + 5x + 7) = 0$

1 ponto

Solve for x

- x = 3
- x = 2
- x = 2 or x = 3
- 7. Simplify $\log_2 72 \log_2 9$

1 ponto

- **4**
- $\bigcirc \log_2 4$
- ① ()

- O log₂ 63
- 8. Simplify $\log_3 9 \log_3 3 + \log_3 5$

1 ponto

- $\bigcirc \log_3 8$
- \bigcirc 8
- O 15
- O log₃ 15
- 9. Simplify $log_2(3^8 \times 5^7)$

1 ponto

- \bigcirc 56 × log₂ 15
- $(8 \times \log_2 3) + (7 \times \log_2 5)$
- \bigcirc 15 × log₂ 56
- $\bigcirc (5 \times \log_2 3) + (8 \times \log_2 5)$
- 10. If $\log_{10} y = 100$, what is $\log_2 y = ?$

1 ponto

- 332.19
- **20**
- 301.03
- 500
- 11. A tree is growing taller at a continuous rate. In the past 12 years it has grown from 3 meters to 15 meters. What is its rate of growth per year?

1 ponto

- 0 10.41%
- 13.41%

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	12.41%
	11.41%
12.	Bacteria can reproduce exponentially if not constrained. Assume a colony grows at a continually compounded rate of 400% per day. How many days before a colony with initial mass of 6.25 X 10^{-10} grams weights 1000 Kilograms?
	\bigcirc 0.875 days
	● 875 days
	○ 8.75 days
	○ 87.5 days
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	Cinthya Langue Blois