$\circ_{x^{\frac{4}{3}}}$ $\bigcirc \ x^{-1}$ \bullet $x^{\frac{-3}{4}}$

```
By the Power to a Power Rule, each of the exponents is multiplied by \left(-1\right)
      \log_2 \frac{39x}{(x-5)} = 4 by the Quotient Rule.
   ✓ Correcto
       We use the Power to a Power Rule -- multiply exponents:
       x^{rac{1}{2}	imesrac{-3}{2}}=x^{rac{-3}{4}}
\bigcirc 1
\bigcirc 0
\bigcirc 2
   ✓ Correcto
       This is equivalent to:
0.8934
 - 0.1011
\bigcirc 5.216
       to 2, so the answer is 1.34\,
\circ 6
5
\circ 4
\bigcirc 3
   ✓ Correcto
       To solve for a in the formula;
      \log_a b = \frac{\log_x b}{\log_x a}
       \log_a b = 2.5752 and \log_{10} b = 1.8
18.02%
0 19.01%
^{\circ} 17.01%
^{\circ} 20.01
   ✓ Correcto

\ln \frac{7400}{1600}

                   = 0.18017
0.2478
\circ 0.02478
0.002478
   ✓ Correcto
       e^{(0.24 \times 25)} = \frac{1}{x}
      x = \frac{1}{(e^{0.24 \times 25})}
       x = \frac{1}{403.4288}
       x = 0.002478
```

```
^{\text{8.}} If \log_3 19 = 2.680, what is \log_9 19?
^{\rm 9.}~~{\rm If}\log_{10}b=1.8 and log_ab=2.5752 , what is a ?
\log_2 z = 6.754. What is \log_{10}(z)?
   2.03316
   \circ 0.49185
```

✓ Correcto

g(1.5) = 9.7

 $\bigcirc g(1.5) = 103.4$

 $\bigcirc g(1.5) = 11$

 $\bigcirc g(1.5) = 10.1$

✓ Correcto

 $(\log_{10} z) \times (\log_2 10) = 3.321928$

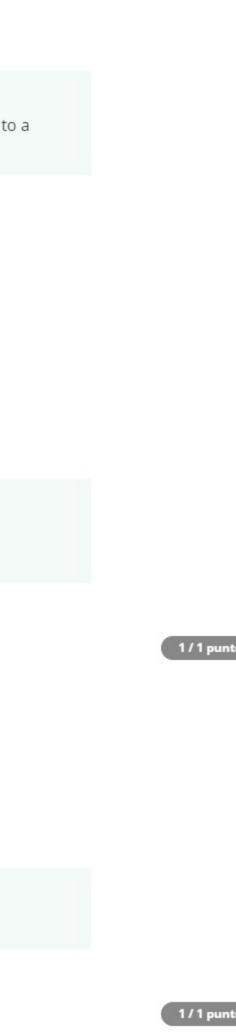
Therefore, $\log_{10}z=rac{6.754}{3.321928}=2.03316$

every single value of a. Which of the following could possibly be g(1.5)?

13. Suppose that $g:\mathbb{R} o\mathbb{R}$ is a function, and that g(1)=10. Suppose that g'(a) is negative for

Since the slope of the tangent line to the graph of g is negative everywhere on the

```
7. Simplify \log_2 8 - \log_2 4 - (\log_3 4.5 + \log_3 2)
          \log_2(\frac{8}{4}) - \log_3(4.5 \times 2) = 1 - 2 = -1
          To convert from \log_3 to \log_9, divide by \log_3 9. Which is equal
          Treating both sides of equation \log_{10}a=0.69897 as exponents of 10 gives a=10^{0.69897}=5
^{\mbox{\scriptsize 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?
^{\mbox{\scriptsize 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?
```



1/1 puntos

1/1 puntos 1/1 puntos

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