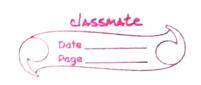
SAGAR SRIVASTANA (FS10010PS00PI) WEEK 3 (APTITUDE) [LOGARITHM] of lag 2 = 0.3010 & lag 3 = 0.4771, the value of log 512 is: 2.870 Solution => log 5 512 = log 512 = log 29 $= \frac{9 \log 2}{\log 10 - \log 2} = \frac{9 \times 0.3010}{1 - 0.3010} = \frac{2.709}{0.599}$ = 3.876 log To il equal to: a) 1/50 Solution log To = log (8) 1/2 b) 14 e) 1/2 d) 1/8

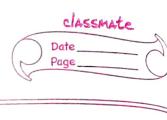


of log 27 = 1.431 , then the value of log? is: (3) 9) 0.934 6) 0.945 et 0.954 d) 0.958 John Solution log 27 = log (3)3 = 3/ag3 = 1.431 =) lag3 = 1.43) $\log 9 = \log 3^2 = 2\log 3 = 2x1.431 = 0.954$ $\frac{\partial}{\partial b} \log \left(\frac{a}{b} \right) + \log \left(\frac{b}{a} \right) = \log \left(\frac{a+b}{b} \right), \text{ then } :$

(a) a+b=1(b) a-b=1(c) a=b(d) $a^2-b^2=1$

Solution log (a) + log (b) = log (a+b)

=7 a
$$log\left(\frac{d}{dx}\right) = log\left(a+b\right) = 7$$
 $a+b=1$

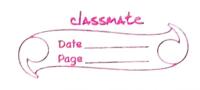


$$= 0 - \left[\log_{10}(7) + \log_{10}(10) \right]$$

$$= 0 - (9+1)$$

$$\log 70 = 1 = 1000$$
 $\log 2 = 0.3010 = 301$

Salution



1 lag 105 + lag 10 (5x+1) = lag 10 (x+5) +1 then

a) $\frac{1}{5}$ c) $\frac{5}{4}$

Salution

=> lag105 + lag10(5n+1) = lag10(n+5) + lag1010

=> lag 10 (5 x (5n+1)) = lag 10 (10 (n+5))

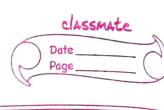
 \Rightarrow 25n+5 = 10n+50 \Rightarrow 15n = 45 \Rightarrow n=3

1) The value of log to log to log to

a) 0 b 1 c) 5 d) 60

Solution > log 3 + log 4 + log 5

 $\frac{1}{2} \log_{10} \left(\frac{3}{3} \times \frac{4}{3} \times \frac{5}{3} \right) = \log_{10} \left(\frac{5}{3} \right) = 1$



9 $\log 2 = 0.30103$, then no of digita in 2^{64} is:

9) 18 b) 19 c) 20 d) 21

log (264) = 64 x log2 = 64 x 0.30103

.. No of digite = 20

Solution

= 19.26592 \(\times 19.

 $\frac{\partial}{\partial x} \frac{\partial x}{\partial x} = \frac{1}{2} + \frac{1}{2} +$

9) - 3 6) 91 4 256 91

 $n^{-1/2} = 9 \Rightarrow 1 = 9$

 $\sqrt{n} = \frac{916}{9} \Rightarrow \boxed{n = 256}$

Solution