Mathematics Tasks 14/08/2023

6094/256/=4-4=-4 14.08 5. lne = 3 lne = 3 - log37 - log37, Toki Kak 3=9, log a $C^2 = \frac{\log_6 C}{\log_6 a}$ log a $b^2 = \frac{\log_6 C}{\log_3 3} = 3$ log a $b^2 = 2$ log $a^2 = 3$ 17. log 3 100 log g20 = loge of = loge of loge & = - Cay 3 10 + 2 · lag 3 20 ; log al = c - log al = log 3 (10-20) = log 3 200 2 log 3 10 020

Nº 3, 7, 10 3. Cog 5 X = 3 X = 53 X = 125 7. lop (x3) = 12 3. Cop 5 X = 12 * leg & x = 12/3 A 24 lop 5 x = 4 x = 54 X 2 625 10. log 5 25 = 2x log 5 25 2 2 ; algobre usuo N= 4,8 u. log412×1=5x4+3 x, log 2 = X

$$\frac{x}{2} = \frac{5}{2} \times \frac{13}{4}$$

$$x = \frac{10}{4} \times \frac{16}{6}$$

$$x = \frac{6}{8} = -\frac{2}{3}$$

$$8. \log_{\frac{1}{2}} \frac{3}{28} = \frac{2}{3}$$

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$$\log_{\frac{1}{2}} \frac{128}{3} = \frac{2}{3} = \frac{2}$$

$$28-3^{2} = 3^{3-x}, y = 3x$$

$$3^{3-x} + y = 28$$

$$3^{3} \cdot 3^{x} + y = 28$$

$$27 \cdot 3x + y = 28$$

$$27 \cdot 3y + y = 28y$$

$$3y + y = 28y$$

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$$3y + y = 28y$$

$$3y$$

WANTER TO THE WAY OF THE PARTY.

Sogora 13 1 log 2 x 12 - 3 log 2 x + 3 log 2 x - 1 log2 x1 = log2 (x1 · log2 (x) log + x-120 log2 x21 Hycro log 2x - Syger y Torge 1412-34+3>01 (log 2x/2 - 3 log2 x +3 > log2 x-1 y = 3y - 3 = 1 >0 y = 3 y + 3 - | u - 1) y2-44 +4 >0

 $(y-2)^2$ y-1>0(y-21" x>0 Eau y=2, To lope menue oygeT, Orper yore unous Megobatellotto Menane my me Eau 2² - 2.2.2 + 2² = 7-8+9=0. (y-2/1/y-2/mm y=2,08fe7 dyper 2 ¢ 1, Tan nan Torgo un 6 zuauenosere rong reserve Orler X € (2,4) U(4,+00) Tole Kuk you X E = 2 1 K = 4, Mg nongræden uiso o l' zua ell noseile, mos negraberisto <1.