$$\frac{8^{8^8} \cdot 8^{8^8}}{8^{8^8} + 8^{8^8}} = 11^x$$

$$x = ?$$

---------- Q U E S T I O N ----------

(8^8·8^8)/(8^8 + 8^8) = 11^x

x = ?

---------- R É P O N S E ----------

(8^8·8^8)/(8^8 + 8^8) = 11^x

8^16/2·8^8 = 11^x

(1/2)·(8^16/8^8) = 11^x

0,5·8^8 = 11^x

notes:

• 0,5 = 11^(log[11](0,5)) = 11^-0,28906

• 8 = 11^(log[11](8)) = 11^0,86719

• donc 0,5·8^8 = 11^x devient:

11^-0,28906·11^0,86719^8 = 11^x

11^-0,28906·11^(0,86719·8) = 11^x

11^-0,28906·11^6,93752 = 11^x

11^(-0,28906 + 6,93752) = 11^x

11^(6,64846) = 11^x

même base (= 11), donc:

6,64846 = x

```
 -----------------
|   x ≈ 6,64846   |
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```

vérification:

(8^8·8^8)/(8^8 + 8^8) = 8 388

11^6,64846 = 8 387