LEMBAR KERJA PESERTA DIDIK

Anggota Kelompok :

1.

2.

KELOMPOK

3.

4.

DEFINISI LOGARITMA

Jika $a^n = x \leftrightarrow a_{Log\,x} = n$

Contoh : $3^2 = 9 \leftrightarrow 3_{Log\,9} = 2$

Soal 1 :

$4^{\cdots} = 64 \leftrightarrow 4_{Log\,64} = \cdots$

SIFAT-SIFAT LOGARITMA

1. $a_{Log\,a} = 1$

Contoh : $3_{Log\,3} = 1$

Soal 2 :

$5_{Log\,5} = \cdots$

2. $a_{Log\,1} = 0$

Contoh : $2_{Log\,1} = 0$

Soal 3 :

$6_{Log\,1} = \cdots$

3. $a_{Log\,a^n} = n$

Contoh : $3_{Log\,3^5} = 5$

Soal 4 :

$7_{Log\,7^4} = \cdots$

4. $a_{Log\,(bxc)} = a_{Log\,b} + a_{Log\,c}$

Contoh : $2_{Log\,8} + 2_{Log\,4} = 2_{Log\,(8x4)} = 2_{Log\,32} = 5$

Soal 5 :

$3_{Log\,27} + 3_{Log\,3} = 3_{Log\,(27x3)}$

$= 3_{Log\,\ldots} = \cdots$

5. $a_{Log\,\frac{b}{c}} = a_{Log\,b} - a_{Log\,c}$

Contoh : $2_{Log\,8} - 2_{Log\,4} = 2_{Log\,\frac{8}{2}} = 2_{Log\,2} = 1$

Soal 6 :

$3_{Log\,27} - 3_{Log\,3} = 3_{Log\,\frac{27}{3}}$

$= 3_{Log\,\ldots} = \cdots$

6. $a_{Log\,b^n} = n\,a_{Log\,b}$

Contoh : $3_{Log\,9^2} = 2.\ 3_{Log\,9} = 2.2 = 4$

Soal 7 :

$6_{Log\,216^2} = 2.\ 6_{Log\,216} = \cdots x \ldots = \cdots$

7. $a_{Log\,b} = \frac{n_{Log\,b}}{n_{Log\,a}}$

Contoh : $4_{Log\,64} = \frac{2_{Log\,64}}{2_{Log\,4}} = \frac{6}{2} = 3$

Soal 8 :

$9_{Log\,81} = \frac{3_{Log\ldots}}{3_{Log\ldots}} = \frac{\cdots}{\cdots} = \cdots$

8. $a_{Log\,b} = \frac{1}{b_{Log\,a}}$

Contoh : $8_{Log\,64} = \frac{1}{64_{\,Log\,8}} = \frac{1}{\frac{1}{2}} = 2$

Soal 9 :

$9_{Log\,81} = \frac{1}{81_{\,Log\,9}} = \frac{1}{\frac{\cdots}{\cdots}} = \cdots$

9. $a_{Log\,b}\,x\ b_{Log\,c} = a_{Log\,c}$

Contoh : $2_{Log\,8}\,x\ 8_{Log\,64} = 2_{Log\,64} = 6$

Soal 10 :

$3_{Log\,9}\,x\ 9_{Log\,81} = \cdots_{Log\ldots} = \cdots$

LIVEWORKSHEETS