



PEMERINTAH PROVINSI LAMPUNG
DINAS PENDIDIKAN DAN KEBUDAYAAN
SMAN 1 PENAWAR AJI

Alamat : Jl. Antoni Murad Kamp. Panca Tunggal Jaya Kec. Penawar Aji Kab. Tulang Bawang



PENILAIAN TENGAH SEMESTER GANJIL
TP. 2024/2025

NAMA :

KELAS :

MAPEL :

1. Sederhanakan bentuk eksponensial berikut!

a. $\frac{A^5 B^{-2} C^3}{A^{-2} B^{-1} C^4} = \dots$

$\dots$

$\dots$

2. Sederhanakan bentuk persamaan eksponensial berikut ini!

a. $5^{x^2+7x+42} = 25^{12-x}$

$\dots + \dots + \dots = (\dots) \dots$

$\dots + \dots + \dots = \dots$

$\dots + \dots + \dots = \dots$

$\dots + \dots + \dots + \dots - \dots = \dots$

$\dots + \dots + \dots = \dots$

$(x \dots) (x \dots) = \dots$

$X = \dots$

$X = \dots$

b. $9^{x^2+x} = 27^{x^2-1}$

$\dots + \dots = (\dots) \dots$

$\dots + \dots = \dots$

$\dots + \dots = \dots$

$\dots - \dots + \dots + \dots = \dots$

$\dots + \dots + \dots = \dots$

$(-x \dots) (x \dots) = \dots$

$X = \dots$

$X = \dots$

3. Sederhanakan fungsi eksponensial berikut ini!

a. $F(x) = 1/2^x$

X	-3	-2	-1	0	1	2	3
Y	...	...	...	...	...	...	...
(x,y)	...	...	...	...	...	...	...

b. $F(x) = 2^x$

X	-3	-2	-1	0	1	2	3
Y	...	...	...	...	...	...	...
(x,y)	...	...	...	...	...	...	...