

LATIHAN 2. POLA BILANGAN (BARISAN ARITMETIKA DAN GEOMETRI)

Nama:

Kelas:

1. Tuliskan Rumus Suku ke-n deret Aritmetika

$$U_n = \dots\dots\dots + (\dots\dots - \dots\dots) \dots\dots$$

2. Hitunglah besarnya U_{32} dari barisan 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, ...

Diketahui: $a = \dots\dots\dots$

$b = \dots\dots\dots$

Ditanya: U_{32} ?

Jawab: Rumus = $U_n = \dots\dots\dots + (\dots\dots - \dots\dots)$

$$U_{32} = \dots\dots\dots + (\dots\dots - \dots\dots) \dots\dots$$

$$U_{32} = \dots\dots\dots + (\dots\dots) \dots\dots$$

$$U_{32} = \dots\dots\dots$$

3. Tuliskan Rumus Jumlah suku ke-n Barisan Aritmetika !

$$S_{25} = \frac{\dots\dots}{\dots\dots} (\dots\dots + \dots\dots)$$

4. Berdasarkan soal nomor 2. Hitunglah jumlah 25 suku pertama !

$$U_{25} = \dots\dots\dots + (\dots\dots - \dots\dots) \dots\dots$$

$$U_{25} = \dots\dots\dots + (\dots\dots) \dots\dots$$

$$U_{25} = \dots\dots\dots$$

$$\text{Sehingga } S_{25} = \frac{\dots\dots}{\dots\dots} (\dots\dots + \dots\dots) = \frac{\dots\dots}{\dots\dots} (\dots\dots) = \dots$$

5. Tuliskan Rumus Jumlah suku ke-n Deret Geometri !

$$U_n = \dots\dots\dots - \dots\dots$$

6. Tentukanlah suku ke 11 dari barisan bilangan 1, 2, 4, 8, 16

Diketahui : $a = \dots\dots\dots$

$r = \dots\dots\dots$

Ditanya : U_{11} ?

Jawab : $U_n = ar^{n-1}$

$$U_{\dots\dots\dots} = \dots\dots \times \dots\dots \dots\dots\dots$$

$$U_{\dots\dots\dots} = \dots\dots\dots$$

$$U_{\dots\dots\dots} = \dots$$

7. Hitunglah Jumlah 8 suku pertama deret 1, 2, 4, 8, 16,

Jawab :

$$S_n = \frac{a(r^n - 1)}{r - 1}$$

$$S_{\dots\dots\dots} = \frac{\dots\dots(\dots\dots - \dots\dots)}{\dots\dots - \dots\dots}$$

$$S_{\dots\dots\dots} = \dots\dots\dots - \dots\dots = \dots\dots$$