Name:

Barisan & DeretAritmetika Geometri

Exercise 3

1. Diketahui barisan aritmetika 2, 5, 8, 11, ... Tentukan:
   a. Suku ke- 50
   b. Jumlah 50 suku pertama

Jawab:

Diketahui: a = ...

b = ...

n = ...

Ditanya : $U_{.....}$

Penyelesaian:

a.

$U_n = a + (n - 1) \times b$

$U_{.....} = ... + (..... - 1) \times .....$

$U_{.....} = ... + (.....) \times .....$

$U_{.....} = ... + ...$

$U_{.....} = ...$

b.

$S_n = \frac{n}{2}[2a + (n - 1) \times b]$

$S_n = \frac{.....}{2}[2 \times .... + (.....-1) \times .....]$

$S_n = \frac{.....}{2}[.....+ (.....) \times .....]$

$S_n = ...\times [.....+ .....]$

$S_n = ... \times .....$

$S_n = ...$

LIVEWORKSHEETS

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Exercise 3

2. Diketahui suatu barisan aritmatika dengan U2 = 6 dan U7 = 31. Tentukan suku ke 40

$U_n = a + (n - 1) \times b$

$U_7 = a + (7 - 1) \times b = a + \ldots\ldots b = \ldots\ldots\ldots$ -------> persamaan (1)

$U_2 = a + (2 - 1) \times b = a + \ldots\ldots b = \ldots\ldots\ldots$ -------> persamaan (2)

$\underline{\qquad\qquad\qquad} -$

$\ldots\ldots\ldots b = \ldots\ldots\ldots$

$b = \ldots\ldots\ldots$

Subtitisi b = ... Ke persamaan (1) : a + ... b = ...

a + ... (.....) = ...

a + ... = ...

a = ... - .....

a = ...

Jadi, $U_{40} = a + (40 - 1) \times b$ ----------> $U_n = a + (n - 1) \times b$

$U_{40} = \ldots\ldots\ldots + (40 - 1) \times \ldots\ldots\ldots$

$U_{40} = \ldots\ldots\ldots + (\ldots\ldots\ldots) \times \ldots\ldots\ldots$

$U_{40} = \ldots\ldots\ldots + \ldots\ldots\ldots$

$U_{40} = \ldots\ldots\ldots$

LIVEWORKSHEETS