

TUGAS MATEMATIKA

1. Tentukan suku ke-10, suku ke-15 dan suku ke-20 dari barisan berikut:
 - a. 5, 10, 15, 20,
 - b. 8, 4, 0, -4,
2. Hitunglah jumlah dari 10 suku pertama, jumlah dari 15 suku pertama dan jumlah dari 20 suku pertama dari deret berikut:
 - a. $2 + 6 + 10 + 14 + \dots$
 - b. $16 + 14 + 12 + 10 + \dots$

Jawab

1. A) diketahui $a = \dots\dots\dots$
 $b = \dots\dots\dots$
 $U_{10} = ?$
 $U_n = a + (n-1).b$
 $U_{10} = \dots\dots\dots + (10 - 1) \times \dots\dots\dots$
 $U_{10} = \dots\dots\dots + (9) \times \dots\dots\dots$
 $U_{10} = \dots\dots\dots + \dots\dots\dots$
 $U_{10} = \dots\dots\dots$

diketahui $a = \dots\dots\dots$
 $b = \dots\dots\dots$
 $U_{15} = ?$
 $U_n = a + (n-1).b$
 $U_{15} = \dots\dots\dots + (15 - 1) \times \dots\dots\dots$
 $U_{15} = \dots\dots\dots + (14) \times \dots\dots\dots$
 $U_{15} = \dots\dots\dots + \dots\dots\dots$
 $U_{15} = \dots\dots\dots$

diketahui $a = \dots\dots\dots$
 $b = \dots\dots\dots$
 $U_{20} = ?$
 $U_n = a + (n-1).b$
 $U_{20} = \dots\dots\dots + (20 - 1) \times \dots\dots\dots$
 $U_{20} = \dots\dots\dots + (19) \times \dots\dots\dots$
 $U_{20} = \dots\dots\dots + \dots\dots\dots$
 $U_{20} = \dots\dots\dots$

B) diketahui $a = \dots\dots\dots$

$b = \dots\dots\dots$

$U_{10} = ?$

$$U_n = a + (n-1).b$$

$$U_{10} = \dots\dots\dots + (10 - 1) \times \dots\dots\dots$$

$$U_{10} = \dots\dots\dots + (9) \times \dots\dots\dots$$

$$U_{10} = \dots\dots\dots + \dots\dots\dots$$

$$U_{10} = \dots\dots\dots$$

diketahui $a = \dots\dots\dots$

$b = \dots\dots\dots$

$U_{15} = ?$

$$U_n = a + (n-1).b$$

$$U_{15} = \dots\dots\dots + (15 - 1) \times \dots\dots\dots$$

$$U_{15} = \dots\dots\dots + (14) \times \dots\dots\dots$$

$$U_{15} = \dots\dots\dots + \dots\dots\dots$$

$$U_{15} = \dots\dots\dots$$

diketahui $a = \dots\dots\dots$

$b = \dots\dots\dots$

$U_{20} = ?$

$$U_n = a + (n-1).b$$

$$U_{20} = \dots\dots\dots + (20 - 1) \times \dots\dots\dots$$

$$U_{20} = \dots\dots\dots + (19) \times \dots\dots\dots$$

$$U_{20} = \dots\dots\dots + \dots\dots\dots$$

$$U_{20} = \dots\dots\dots$$

2. A) Diketahui $a = \dots\dots\dots$

$b = \dots\dots\dots$

$S_{10} = ?$

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

$$S_{10} = \frac{10}{2} (2 \times \dots\dots\dots + (10-1) \times \dots\dots\dots)$$

$$S_{10} = \dots\dots\dots (2 \times \dots\dots\dots + (9) \times \dots\dots\dots)$$

$$S_{10} = \dots\dots\dots (\dots\dots\dots + \dots\dots\dots)$$

$$S_{10} = \dots\dots\dots \times (\dots\dots\dots) = \dots\dots\dots$$

Diketahui a =

b =

$S_{15} = ?$

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

$$S_{15} = \frac{15}{2} (2 \times \dots + (15-1) \times \dots)$$

$$S_{15} = \dots (2 \times \dots + (14) \times \dots)$$

$$S_{15} = \dots (\dots + \dots)$$

$$S_{15} = \dots \times (\dots) = \dots$$

Diketahui a =

b =

$S_{20} = ?$

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

$$S_{20} = \frac{20}{2} (2 \times \dots + (20-1) \times \dots)$$

$$S_{20} = \dots (2 \times \dots + (19) \times \dots)$$

$$S_{20} = \dots (\dots + \dots)$$

$$S_{20} = \dots \times (\dots) = \dots$$

B) Diketahui a =

b =

$S_{10} = ?$

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

$$S_{10} = \frac{10}{2} (2 \times \dots + (10-1) \times \dots)$$

$$S_{10} = \dots (2 \times \dots + (9) \times \dots)$$

$$S_{10} = \dots (\dots + \dots)$$

$$S_{10} = \dots \times (\dots) = \dots$$

Diketahui a =

b =

$S_{15} = ?$

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

$$S_{15} = \frac{15}{2} (2 \times \dots + (15-1) \times \dots)$$

$$S_{15} = \dots (2 \times \dots + (14) \times \dots)$$

$$S_{15} = \dots (\dots + \dots)$$

$$S_{15} = \dots \times (\dots) = \dots$$

Diketahui a =

b =

$S_{20} = ?$

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

$$S_{20} = \frac{20}{2} (2 \times \dots + (20-1) \times \dots)$$

$$S_{20} = \dots (2 \times \dots + (19) \times \dots)$$

$$S_{20} = \dots (\dots + \dots)$$

$$S_{20} = \dots \times (\dots) = \dots$$