TUGAS MATEMATIKA

1. Tentukan suku ke-10, suku ke-15 san 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 +……..
   b. 16 + 14 + 12 + 10 + …

Jawab

1. A) diketahui a = ……

   b =……

   U_{10} = ?

   U_n = a + (n-1).b

   U_{10}= ……. + (10 – 1) x …….

   U_{10}= ……. + (9) x …….

   U_{10}= ……. + …….

   U_{10}= …….

   diketahui a = ……

   b =……

   U_{15} = ?

   U_n = a + (n-1).b

   U_{15}= ……. + (15 – 1) x …….

   U_{15}= ……. + (14) x …….

   U_{15}= ……. + …….

   U_{15}= …….

   diketahui a = ……

   b =……

   U_{20} = ?

   U_n = a + (n-1).b

   U_{20}= ……. + (20 – 1) x …….

   U_{20}= ……. + (19) x …….

   U_{20}= ……. + …….

   U_{20}= …….

LIVEWORKSHEETS

B) diketahui a = ...

b =.....

U_{10} = ?

U_n = a + (n-1).b

U_{10}= ..... + (10 – 1) x .....

U_{10}= ..... + (9) x .....

U_{10}= ..... + ...

U_{10}= .....

diketahui a = ...

b =.....

U_{15} = ?

U_n = a + (n-1).b

U_{15}= ..... + (15 – 1) x .....

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U_{20} = ?

U_n = a + (n-1).b

U_{20}= ..... + (20 – 1) x .....

U_{20}= ..... + (19) x .....

U_{20}= ..... + ...

U_{20}= .....

2. A) Diketahui a = ...

b = ...

S_{10} = ?

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

$S_{10} = \frac{10}{2}$ (2 x..... + (10-1) x .....)

S_{10} = ... (2 x..... + (9) x .....)

S_{10} = ... (..... + ...)

S_{10} = ... x (.....) = ...

LIVEWORKSHEETS

Diketahui a = ...

b = ...

S_{15} = ?

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

$S_{15} = \frac{15}{2}$ (2 x..... + (15-1) x .....)

S_{15} = ... (2 x..... + (14) x .....)

S_{15} = ... (..... + ...)

S_{15} = ... x (.....) = ...

Diketahui a = ...

b = ...

S_{20} = ?

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

$S_{20} = \frac{20}{2}$ (2 x..... + (20-1) x .....)

S_{20} = ... (2 x..... + (19) x .....)

S_{20} = ... (..... + ...)

S_{20} = ... x (.....) = ...

B) Diketahui a = ...

b = ...

S_{10} = ?

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

$S_{10} = \frac{10}{2}$ (2 x..... + (10-1) x .....)

S_{10} = ... (2 x..... + (9) x .....)

S_{10} = ... (..... + ...)

S_{10} = ... x (.....) = ...

Diketahui a = ...

b = ...

S_{15} = ?

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

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LIVEWORKSHEETS

Diketahui a = ...

b = ...

S_{20} = ?

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

$S_{20} = \frac{20}{2}$ (2 x..... + (20-1) x .....)

S_{20} = ... (2 x..... + (19) x .....)

S_{20} = ... (..... + ...)

S_{20} = ... x (.....) = ...

LIVEWORKSHEETS