

SSLC- 2021

MATHEMATICS WORK SHEETS

1

ARITHMETIC PROGRESSIONS

1) Find the 10th term of an AP : 2 , 6 , 10 , ...

solⁿ:

$$a_n = a + (n - 1) d$$

$$a_{10} = 2 + (10 - 1) \times 4$$

$$a_{10} = 2 + (9) \times 4$$

$$a_{10} = 2 + 36$$

$$a_{10} = 38$$

$$n = 10$$

$$a = 2$$

$$\begin{aligned} d &= a_2 - a_1 \\ &= 6 - 2 = 4 \end{aligned}$$

DO IT YOURSELF

2) 1) Find the 20th term of an AP : 5 , 9 , 13 , ...

solⁿ:

$$a_n = a + (n - 1) d$$

$$a_{20} = + (-) \times$$

$$a_{20} = + () \times$$

$$a_{20} = +$$

$$a_{20} =$$

$$n =$$

$$a =$$

$$\begin{aligned} d &= a_2 - a_1 \\ &= - = \end{aligned}$$

3) Find the 15th term of an AP : -2 , 2 , 6 , ...

solⁿ:

$$a_n = a + (n - 1) d$$

$$a_{15} = + (-) \times$$

$$a_{15} = + () \times$$

$$a_{15} = +$$

$$a_{15} =$$

$$n =$$

$$a =$$

$$\begin{aligned} d &= a_2 - a_1 \\ &= - = \end{aligned}$$