ARITHMETIC PROGRESSIONS

Name of the Student : **Date :**

Sum of first n terms of an AP

Consider an AP : $3, 7, 11, 15, 19$

$a =$ $d =$ $n =$ $a_n = l =$

$S_5 =$ $+$ $+$ $+$ $+$ ..... (1)

Rewriting the terms in reverse order

$S_5 =$ $+$ $+$ $+$ $+$ ..... (2)

Adding (1) and (2) term wise we get

$2S_5 =$ $+$ $+$ $+$ $+$

$2S_5 =$ ( )

$S_5 =$ $-$ ( )

$S_5 =$ $-$ ($+$)

$\therefore S_n =$ $-$ ($+$)

$S_n =$ $-$ ($+$)

$S_n =$ $-$ ( )

LIVEWORKSHEETS