Solutions – Arithmetic Series (A)

13, 21, 29, 37, ... Find the sum of the first 8 terms.

$S_8 = 328$

−14, −15, −16, −17, ... Find the sum of the first 9 terms.

$S_9 = -162$

0, −9, −18, −27, ... Find the sum of the first 9 terms.

$S_9 = -324$

12, 5, −2, −9, ... Find the sum of the first 8 terms.

$S_8 = -100$

−13, −21, −29, −37, ... Find the sum of the first 13 terms.

$S_{13} = -793$

2, −1, −4, −7, ... Find the sum of the first 9 terms.

$S_9 = -90$

Solutions – Arithmetic Series (B)

5, 12, 19, 26, ... Find the sum of the first 11 terms.

$S_{11} = 440$

3, 10, 17, 24, ... Find the sum of the first 14 terms.

$S_{14} = 679$

−4, 0, 4, 8, ... Find the sum of the first 8 terms.

$S_8 = 80$

−3, 0, 3, 6, ... Find the sum of the first 12 terms.

$S_{12} = 162$

18, 8, −2, −12, ... Find the sum of the first 12 terms.

$S_{12} = -444$

9, 14, 19, 24, ... Find the sum of the first 9 terms.

$S_9 = 261$

Solutions – Arithmetic Series (C)

9, 14, 19, 24, ... Find the sum of the first 13 terms.

$S_{13} = 507$

11, 3, −5, −13, ... Find the sum of the first 9 terms.

$S_9 = -189$

−6, −15, −24, −33, ... Find the sum of the first 12 terms.

$S_{12} = -666$

−9, −2, 5, 12, ... Find the sum of the first 13 terms.

$S_{13} = 429$

10, 17, 24, 31, ... Find the sum of the first 13 terms.

$S_{13} = 676$

12, 22, 32, 42, ... Find the sum of the first 9 terms.

$S_9 = 468$

Solutions – Arithmetic Series (D)

12, 8, 4, 0, ... Find the sum of the first 8 terms.
$S_8 = -16$

−8, 0, 8, 16, ... Find the sum of the first 8 terms.
$S_8 = 160$

0, 6, 12, 18, ... Find the sum of the first 8 terms.
$S_8 = 168$

−8, 2, 12, 22, ... Find the sum of the first 13 terms.
$S_{13} = 676$

3, 9, 15, 21, ... Find the sum of the first 13 terms.
$S_{13} = 507$

−9, −2, 5, 12, ... Find the sum of the first 9 terms.
$S_9 = 171$

Solutions – Arithmetic Series (E)

18, 9, 0, −9, ... Find the sum of the first 10 terms.

$S_{10} = -225$

−12, −9, −6, −3, ... Find the sum of the first 15 terms.

$S_{15} = 135$

15, 18, 21, 24, ... Find the sum of the first 12 terms.

$S_{12} = 378$

11, 12, 13, 14, ... Find the sum of the first 13 terms.

$S_{13} = 221$

−6, −11, −16, −21, ... Find the sum of the first 15 terms.

$S_{15} = -615$

8, 2, −4, −10, ... Find the sum of the first 11 terms.

$S_{11} = -242$

Solutions – Arithmetic Series (F)

1, −8, −17, −26, ... Find the sum of the first 15 terms.

$S_{15} = -930$

−8, −3, 2, 7, ... Find the sum of the first 8 terms.

$S_8 = 76$

3, 5, 7, 9, ... Find the sum of the first 15 terms.

$S_{15} = 255$

−8, −9, −10, −11, ... Find the sum of the first 13 terms.

$S_{13} = -182$

−6, −13, −20, −27, ... Find the sum of the first 11 terms.

$S_{11} = -451$

−10, −1, 8, 17, ... Find the sum of the first 13 terms.

$S_{13} = 572$

Solutions – Arithmetic Series (G)

3, 10, 17, 24, ... Find the sum of the first 14 terms.

$S_{14} = 679$

1, 8, 15, 22, ... Find the sum of the first 11 terms.

$S_{11} = 396$

19, 17, 15, 13, ... Find the sum of the first 11 terms.

$S_{11} = 99$

7, 3, −1, −5, ... Find the sum of the first 10 terms.

$S_{10} = -110$

−3, −13, −23, −33, ... Find the sum of the first 15 terms.

$S_{15} = -1095$

18, 14, 10, 6, ... Find the sum of the first 14 terms.

$S_{14} = -112$

Solutions – Arithmetic Series (H)

−4, 4, 12, 20, ... Find the sum of the first 10 terms.

$S_{10} = 320$

−8, −10, −12, −14, ... Find the sum of the first 10 terms.

$S_{10} = -170$

20, 27, 34, 41, ... Find the sum of the first 8 terms.

$S_8 = 356$

−7, −3, 1, 5, ... Find the sum of the first 10 terms.

$S_{10} = 110$

−15, −20, −25, −30, ... Find the sum of the first 8 terms.

$S_8 = -260$

−5, −2, 1, 4, ... Find the sum of the first 11 terms.

$S_{11} = 110$

Solutions – Arithmetic Series (I)

19, 15, 11, 7, ... Find the sum of the first 12 terms.

$S_{12} = -36$

−8, −6, −4, −2, ... Find the sum of the first 9 terms.

$S_9 = 0$

−10, −2, 6, 14, ... Find the sum of the first 12 terms.

$S_{12} = 408$

−15, −12, −9, −6, ... Find the sum of the first 15 terms.

$S_{15} = 90$

15, 25, 35, 45, ... Find the sum of the first 8 terms.

$S_8 = 400$

−9, −18, −27, −36, ... Find the sum of the first 10 terms.

$S_{10} = -495$

Solutions – Arithmetic Series (J)

−1, 4, 9, 14, ... Find the sum of the first 15 terms.

$S_{15} = 510$

6, 3, 0, −3, ... Find the sum of the first 10 terms.

$S_{10} = -75$

18, 10, 2, −6, ... Find the sum of the first 14 terms.

$S_{14} = -476$

19, 28, 37, 46, ... Find the sum of the first 15 terms.

$S_{15} = 1230$

15, 20, 25, 30, ... Find the sum of the first 12 terms.

$S_{12} = 510$

0, −1, −2, −3, ... Find the sum of the first 11 terms.

$S_{11} = -55$