

Intermediate Algebra Skill

Finding the Sum of the First n Terms of an Arithmetic Series

Find the sum of the first n terms given in the following Arithmetic Series:

1) $9+14+19+24\dots$, $n=13$

2) $13+17+21+25\dots$, $n=11$

3) $-30-40-50-60\dots$, $n=9$

4) $11+21+31+41\dots$, $n=11$

5) $29+36+43+50\dots$, $n=7$

6) $27+37+47+57\dots$, $n=8$

7) $-3-5-7-9\dots$, $n=10$

8) $5+8+11+14\dots$, $n=10$

9) $(-20)+(-24)+(-28)+(-32)\dots$, $n=19$

10) $2+7+12+17\dots$, $n=8$

Answers to Finding the Sum of the First n Terms of an Arithmetic Series

1) 507

2) 363

3) -630

4) 671

5) 350

6) 496

7) -120

8) 185

9) -1064

10) 156