

WORKSHEET #1 – Arithmetic Sequences

1. Write the first five terms of the sequence that has the general term $t_n = 5n - 1$.
2. Find the general term of the arithmetic sequence 3, 1, -1, -3, -5, ...
3. Find the 40th term of the sequence 3, 1, -1, -3, -5, ...
5. Find the number of terms in the finite sequence -1, 4, 9, ..., 174.

Find the n th term of the sequence, then find the 20th term.

6. $t_1 = 2$ and $d = 3$

7. -6, -4, -2, ...

8. $t_1 = 0$ and $d = \frac{2}{3}$

9. $\frac{2}{5}, \frac{1}{15}, \frac{-4}{15}, \dots$

Find the n th term of the sequence.

10. $t_1 = -4$ and $t_5 = 16$

11. $t_3 = 94$ and $t_6 = 85$