Find the nth term of each arithmetic progression.

5. A1= 3/7   d= ¾   n= 5

Solution.

If the initial term of an arithmetic progression is a_1 and the common difference of successive members is d, then the nth term of the sequence (a_n) is given by:

$$a_n = a_1 + (n - 1)d. \qquad (1)$$

So, using (1) we obtain that

$$a_n = \frac{3}{7} + (5 - 1) * \frac{3}{4};$$

$$a_n = \frac{3}{7} + 3 = \frac{24}{7}.$$

Answer.

$\frac{24}{7}$