

Find the missing terms for each arithmetic sequence and state the common difference

1. 1, 3, __, 7, __

Common difference _____

2. 2, __, 18, 26, ____

Common difference _____

3. 3, __, __, 24, 31

Common difference _____

4. __, __, 20, 40, 60

Common difference _____

5. 1, 4, 7, __, __

Common difference _____

6. 40, __, 20, 10, 0, ____

Common difference _____

Two consecutive terms in an arithmetic sequence are given. Find the common difference, the recursive rule, and the explicit/function rule

7. If $f(0) = 2$ and $f(1) = 8$ then $f(2) =$ _____ and $f(3) =$ _____

Common ratio _____ Recursive rule _____ Explicit Rule _____

8. If $f(1) = 4$ and $f(2) = 8$ then $f(3) =$ _____ and $f(4) =$ _____

Common ratio _____ Recursive rule _____ Explicit Rule _____

9. If $f(2) = 9$ and $f(3) = 3$ then $f(4) =$ _____ and $f(5) =$ _____

Common ratio _____ Recursive rule _____ Explicit Rule _____

10. If $f(3) = 16$ and $f(4) = 32$ then $f(5) =$ _____ and $f(6) =$ _____

Common ratio _____ Recursive rule _____ Explicit Rule _____

11. If $f(4) = 16$ and $f(5) = 8$ then $f(6) =$ _____ and $f(7) =$ _____

Common ratio _____ Recursive rule _____ Explicit Rule _____

12. If $f(5) = 40$ and $f(6) = 80$ then $f(7) =$ _____ and $f(8) =$ _____

Common ratio _____ Recursive rule _____ Explicit Rule _____