

Arithmetic Sequences

For the following sequences find the recursive and explicit definition:

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|----------------------------------|---------------------------------------------|
| 1) $\{5, 10, 15, 20, \dots\}$ | 6) $\{1.5, 2.75, 4, 5.25, \dots\}$ |
| 2) $\{9, 18, 27, 36, \dots\}$ | 7) $\{-11, -8, -5, -2, \dots\}$ |
| 3) $\{-1, 3, 7, 11, \dots\}$ | 8) $\{20, -13, -46, -79, \dots\}$ |
| 4) $\{-4, -2, 0, 2, \dots\}$ | 9) $\{.33, .89, 1.45, 2.01, \dots\}$ |
| 5) $\{5, -10, -25, -40, \dots\}$ | 10) $\{2.45, -2.75, -7.95, -13.15, \dots\}$ |

Find the next 5 terms of the sequence when given a_1 and d .

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|-------------------------------|---------------------------------|
| 11) $a_1 = 33$ and $d = 6$ | 15) $a_1 = 14$ and $d = 11$ |
| 12) $a_1 = 5$ and $d = 15$ | 16) $a_1 = -4$ and $d = 9$ |
| 13) $a_1 = 13$ and $d = -3$ | 17) $a_1 = .25$ and $d = -3.75$ |
| 14) $a_1 = -2.6$ and $d = .2$ | 18) $a_1 = 1.65$ and $d = .89$ |

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