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| **Determine whether each sequence is an arithmetic sequence. If yes, identify the common difference.** |
| 1. 4, 7, 9, 12, …
 | 1. 15, 13, 11, 9, …
 |
| 1. 7, 10, 13, 16, …
 | 1. -6, -5, -3, -1, …
 |
| 1. -13, -6, 1, 8, …
 | 1. -9, -14, -19, -24, …
 |
| **Determine whether each sequence is an arithmetic sequence. If yes, identify the next three terms.** |
| 1. 3, 7, 11, 15, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
 | 1. 22, 20, 18, , 16, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
 |
| 1. -13, -11, -9, -7, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
 | 1. -2, -5, -8, -11, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
 |
| **Write an equation to find the** $n^{th}$**term of each sequence. Then find** $a\_{24}$**.** |
| 1. 1, 3, 5, 7, …
 | 1. -1, -4, -7, -10, …
 |
| 1. -4, -9, -14, -19, …
 | 1. 7, 13, 19, 25, …
 |
| 1. Charlie deposited $115 in a savings account. Each week thereafter, he deposits $35 into the account.
 |
| 1. Write a formula to represent this sequence.
 | 1. How much total money has Charlie deposited after 30 weeks?
 |
| 1. As manager of the soccer team, Wendy is to hand out cups of water at practice. Each cup of water is 4 ounces. She begins practice with a 128-ounce cooler of water.
 |
| 1. Write a formula to represent this sequence.
 | 1. How much water is remaining after she hands out the 14th cup?
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