Extra Sequences and Series Practice Questions

1)	The terms $5x + 2$, $7x - 4$, and $10x + 6$ are consecutive terms of an arithmetic sequence. Determine the value of x and the 3 terms.
2)	The sum of the first 2 terms of an arithmetic series is 13 and the sum of the first four terms is 46. Determine the first 3 terms of the series and the sum of the first 6 terms.
Foundations and Pre-Calculus 10 Sequences and Series: Assignment 3	
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3) The 15th term of an arithmetic sequence is 43 and the sum of the first 15 terms of the series is 120. Determine the first three terms of the sequence.

- 4) Answer the following as either true or false. Explain.
 - a) Doubling each term of an arithmetic series will double the sum of the series.
 - b) Keeping the first term constant and doubling the number of terms will double the sum of the series.
 - c) If each term of an arithmetic sequence is multiplied by a fixed number, the resulting sequence will always be an arithmetic sequence.

Answers

- 1) x=-16, terms:-78, -116, -154 2) 4, 9, 14, $S_6 = 99$ 3) -27, -22, -17 4a) T b) F c)T
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