

GEOMETRIC SEQUENCES

USE THE FOLLOWING INFORMATION ABOUT GEOMETRIC SEQUENCES TO COMPLETE:

1. $a_1 = 2, a_2 = 6, a_7 = \underline{\hspace{2cm}}$
2. $a_1 = 12, a_2 = 6, a_{10} = \underline{\hspace{2cm}}$
3. $a_1 = 1, a_2 = -2, a_{10} = \underline{\hspace{2cm}}$
4. $a_1 = 29, r = .95, a_{37} = \underline{\hspace{2cm}}$ (*rounded to nearest thousandths*)
5. $a_1 = 3, r = 2, a_n = 1536, n = \underline{\hspace{2cm}}$
6. $a_1 = 729, r = 1/3, a_n = 1, n = \underline{\hspace{2cm}}$
7. $a_1 = 5, r = -3, a_n = -1215, n = \underline{\hspace{2cm}}$
8. $a_1 = 1728, r = 1/2, a_n = 27, n = \underline{\hspace{2cm}}$

GEOMETRIC MEANS (Missing terms of a geometric sequence):

1. 5, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, 135
2. 81, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, 16
3. $1/32$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, 32
4. 13, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, -4459
5. x^5 , $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, x^{17}
6. 13, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, 26
7. 5, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$, 45