GEOMETRIC SEQUENCES

USE THE FOLLOWING INFORMATION ABOUT GEOMETRIC SEQUENCES TO COMPLETE:

1. $a_1 = 2$, $a_2 = 6$, $a_7 =$ _____

2. $a_1 = 12$, $a_2 = 6$, $a_{10} =$ _____

3. $a_1 = 1$, $a_2 = -2$, $a_{10} =$ _____

4. $a_1 = 29$, $r = .95$, $a_{37} =$ _____ (*rounded to nearest thousandths*)

5. $a_1 = 3$, $r = 2$, $a_n = 1536$, $n =$ _____

6. $a_1 = 729$, $r = 1/3$, $a_n = 1$, $n =$ _____

7. $a_1 = 5$, $r = -3$, $a_n = -1215$, $n =$ _____

8. $a_1 = 1728$, $r = 1/2$, $a_n = 27$, $n =$ _____

GEOMETRIC MEANS (Missing terms of a geometric sequence):

1. $5,$ _____, _____, 135

2. $81,$ _____, _____, _____, 16

3. $1/32,$ _____, _____, _____, _____, 32

4. $13,$ _____, _____, -4459

5. $x^5,$ _____, _____, _____, _____, _____, x^{17}

6. $13,$ _____, _____, 26

7. $5,$ _____, _____, _____, 45