Determine if the sequence is arithmetic or geometric. Then, write the first 5 terms of each sequence.

1. The first term of the sequence is 8 and the common difference, d, is 12.

2. The first term of the sequence is –9 and the common ratio, r, is –2.

3. The first term of the sequence is 0 and the common difference, d, is –6.

4. The first term of the sequence is –3 and the common ratio, r, is $-\dfrac{1}{4}$.

5. The first term of the sequence is $7\dfrac{1}{2}$ and the common difference, d, is $\dfrac{1}{2}$.

6. The first term of sequence is 150 and the common ratio, r, is $\dfrac{1}{5}$.

1. Arithmetic: 8, 20, 32, 44, 56

2. Geometric: -9, 18, -36, 72, -144

3. Arithmetic: 0, -6, -12, -18, -24

4. Geometric: $-3,\ \dfrac{3}{4},\ -\dfrac{3}{16},\ \dfrac{3}{64},\ -\dfrac{3}{256}$

5. Arithmetic: $7\dfrac{1}{2},\ 8,\ 8\dfrac{1}{2},\ 9,\ 9\dfrac{1}{2}$

6. Geometric: $150,\ 30,\ 6,\ \dfrac{6}{5},\ \dfrac{6}{25}$