- 1. Find the 24th term in the sequence for which a=-27 and d=3.
- 2. Find n for the sequence for which $a_n=27$, $a_1=-12$, and d=3.
- 3. Find *d* for the sequence for which a = -12 and $a_{23} = 32$.
- 4. Find the first ter in the sequence for which d=-3 and $a_6=5$.
- 5. Find the first term in the sequence for which $a_4 = -21$ and $a_7 = -3$.
- 6. Find the sixth term in the sequence $-3 + \sqrt{2}$, 0, $3 \sqrt{2}$, ...
- 7. Find the 45^{th} term int eh sequence -17, -11, -5, ...
- 8. Form a sequence that has one arithmetic mean between 35 and 45.
- 9. Find the sum of the first 13 terms in the series: $-5 + 1 + 7 + \cdots + 43$.

1. The first term of a geometric sequence is -4, and the common ratio is $\frac{3}{4}$. Find the next four terms.

2. The first term of a geometric sequence is 12, and the common ratio is $-\frac{3}{2}$. Find the next four terms.

3. Find the ninth term of the geometric sequence $\sqrt{3}$, -3, $3\sqrt{3}$, ...

4. Find the fifth term of the geometric sequence 20, 0.2, 0.002, ...

5. Find the first term of the geometric sequence for which $a_5=64\sqrt{2}$ and $r=\sqrt{2}$.

6. Find the first three terms fo the geometric sequence for which $a_4=8\ and\ r=4.$

7. Form a sequence that has one geometric mean between $\frac{1}{9}$ and 3.

8. Find the sum of the first eight terms of the series $\frac{3}{4} + \frac{9}{20} + \frac{27}{100} + \cdots$.