Common Ratios and Next Terms - Answer Key

1. $r = 2$; next terms: $48,\ 96,\ 192$
2. $r = 3$; next terms: $405,\ 1215,\ 3645$
3. $r = \frac{1}{2}$; next terms: $3,\ \frac{3}{2},\ \frac{3}{4}$
4. $r = \frac{1}{3}$; next terms: $1,\ \frac{1}{3},\ \frac{1}{9}$
5. $r = -2$; next terms: $64,\ -128,\ 256$
6. $r = -\frac{1}{2}$; next terms: $4,\ -2,\ 1$
7. $r = 4$; next terms: $512,\ 2048,\ 8192$
8. $r = \frac{1}{5}$; next terms: $1,\ \frac{1}{5},\ \frac{1}{25}$
9. $r = 3$; next terms: $-243,\ -729,\ -2187$
10. $r = -\frac{1}{2}$; next terms: $-5,\ \frac{5}{2},\ -\frac{5}{4}$
11. $r = \frac{2}{3}$; next terms: $\frac{112}{81},\ \frac{224}{243},\ \frac{448}{729}$
12. $r = -\frac{1}{3}$; next terms: $3,\ -1,\ \frac{1}{3}$