

Name : _____

First Term & Common Ratio

Sheet 1

Write the first term(a) and the common ratio(r) of each geometric sequence.

1) 85, 510, 3060, 18360, 110160, ...

a = _____ ; r = _____

2) $\frac{1}{11}, \frac{3}{22}, \frac{9}{44}, \frac{27}{88}, \frac{81}{176}, \dots$

a = _____ ; r = _____

3) 4.9, -9.8, 19.6, -39.2, 78.4, ...

a = _____ ; r = _____

4) -14, 98, -686, 4802, -33614, ...

a = _____ ; r = _____

5) -25, -300, -3600, -43200, -518400, ...

a = _____ ; r = _____

6) $-\frac{7}{2}, -\frac{14}{3}, -\frac{56}{9}, -\frac{224}{27}, -\frac{896}{81}, \dots$

a = _____ ; r = _____

7) $1.1, 1.1\sqrt{6}, 6.6, 6.6\sqrt{6}, \dots$

a = _____ ; r = _____

8) 2, -34, 578, -9826, 167042, ...

a = _____ ; r = _____

9) $5, \frac{10}{3}, \frac{20}{9}, \frac{40}{27}, \frac{80}{81}, \dots$

a = _____ ; r = _____

10) 4.2, 12.6, 37.8, 113.4, 340.2, ...

a = _____ ; r = _____

First Term & Common Ratio

Write the first term(a) and the common ratio(r) of each geometric sequence.

1) 85, 510, 3060, 18360, 110160, ...

a = 85 ; r = 6

2) $\frac{1}{11}, \frac{3}{22}, \frac{9}{44}, \frac{27}{88}, \frac{81}{176}, \dots$

a = $\frac{1}{11}$; r = $\frac{3}{2}$

3) 4.9, -9.8, 19.6, -39.2, 78.4, ...

a = 4.9 ; r = -2

4) -14, 98, -686, 4802, -33614, ...

a = -14 ; r = -7

5) -25, -300, -3600, -43200, -518400, ...

a = -25 ; r = 12

6) $-\frac{7}{2}, -\frac{14}{3}, -\frac{56}{9}, -\frac{224}{27}, -\frac{896}{81}, \dots$

a = $-\frac{7}{2}$; r = $\frac{4}{3}$

7) 1.1, $1.1\sqrt{6}$, $6.6, 6.6\sqrt{6}, \dots$

a = 1.1 ; r = $\sqrt{6}$

8) 2, -34, 578, -9826, 167042, ...

a = 2 ; r = -17

9) $5, \frac{10}{3}, \frac{20}{9}, \frac{40}{27}, \frac{80}{81}, \dots$

a = 5 ; r = $\frac{2}{3}$

10) 4.2, 12.6, 37.8, 113.4, 340.2, ...

a = 4.2 ; r = 3