

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, ...

a = \_\_\_\_\_ ; r = \_\_\_\_\_

86, 4802, -33614, ...

a = \_\_\_\_\_ ; r = \_\_\_\_\_

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

a = \_\_\_\_\_ ; r = \_\_\_\_\_

$\frac{56}{9}, -\frac{224}{27}, -\frac{896}{81}, \dots$

a = \_\_\_\_\_ ; r = \_\_\_\_\_

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

a = \_\_\_\_\_ ; r = \_\_\_\_\_

-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 = \_\_\_\_\_

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## 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, ...

a = 4.9 ; r = -2

4) 86, 4802, -33614, ...

a = 86 ; r = -7

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

a = -25 ; r = -12

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

a =  $\frac{56}{9}$  ; r =  $-\frac{4}{3}$

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

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

8) -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

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