

Name : _____

First Term & Common Ratio

Sheet 2

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

1) $-\frac{11}{2}, -\frac{33}{8}, -\frac{99}{32}, -\frac{297}{128}, -\frac{891}{512}, \dots$

2) $-6.4, 12.8, -25.6, 51.2, -102.4, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

3) $2.8, -11.2, 44.8, \dots$

$5, -375, -1875, \dots$

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a = _____ ; r = _____

a = _____ ; r = _____

5) $12, 180, 2700, \dots$

$\frac{9\sqrt{3}}{16}, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

7) $\frac{1}{2}, -\frac{1}{5}, \frac{2}{25}, \dots$

$86, -1458, 4374, \dots$

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a = _____ ; r = _____

a = _____ ; r = _____

9) $-9.1, -45.5, -227.5, -1137.5, -5687.5, \dots$

10) $-11, 88, -704, 5632, -45056, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

First Term & Common Ratio

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

1) $-\frac{11}{2}, -\frac{33}{8}, -\frac{99}{32}, -\frac{297}{128}, -\frac{891}{512}, \dots$

a = $-\frac{11}{2}$; r = $\frac{3}{4}$

2) $-6.4, 12.8, -25.6, 51.2, -102.4, \dots$

a = -6.4 ; r = -2

3) $2.8, -11.2, 44.8, \dots$

a = 2.8 ; r = -5

$5, -375, -1875, \dots$

; r = 5

5) $12, 180, 2700, \dots$

a = 12 ; r = $\frac{\sqrt{3}}{4}$

$\frac{9\sqrt{3}}{16}, \dots$

; r = $\frac{\sqrt{3}}{4}$

7) $\frac{1}{2}, -\frac{1}{5}, \frac{2}{25}, \dots$

a = $\frac{1}{2}$; r = $-\frac{2}{5}$

$86, -1458, 4374, \dots$

a = 54 ; r = -3

9) $-9.1, -45.5, -227.5, -1137.5, -5687.5, \dots$

a = -9.1 ; r = 5

10) $-11, 88, -704, 5632, -45056, \dots$

a = -11 ; r = -8

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