

Name : _____

First Term & Common Ratio

Sheet 3

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

1) $-10, 120, -1440, 17280, -207360, \dots$

2) $\frac{5}{8}, \frac{15}{16}, \frac{45}{32}, \frac{135}{64}, \frac{405}{128}, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

3) $320, -1280, 5120, \dots$

$0.25, 1012.5, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

5) $-\frac{1}{5}, \frac{1}{2}, -\frac{5}{4}, \frac{25}{8}, \dots$

$\frac{3}{2}, \frac{3}{4}, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

7) $77, 308, 1232, \dots$

$-1.6, -0.8, -0.4, \dots$

a = _____ ; r = _____

a = _____ ; r = _____

9) $3, -3.3, 3.63, -3.993, 4.3923, \dots$

10) $-6, -\frac{6\sqrt{7}}{5}, -\frac{42}{25}, -\frac{42\sqrt{7}}{125}, \dots$

a = _____ ; r = _____

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) $-10, 120, -1440, 17280, -207360, \dots$

a = **-10** ; r = **-12**

2) $\frac{5}{8}, \frac{15}{16}, \frac{45}{32}, \frac{135}{64}, \frac{405}{128}, \dots$

a = **$\frac{5}{8}$** ; r = **$\frac{3}{2}$**

3) $320, -1280, 5120, \dots$

a = **320** ; r = **-4**

4) $0.25, 1012.5, \dots$

a = **0.25** ; r = **5**

5) $-\frac{1}{5}, \frac{1}{2}, -\frac{5}{4}, \frac{25}{8}, \dots$

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

6) $\frac{3}{2}, \frac{3}{4}, \dots$

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

7) $77, 308, 1232, \dots$

a = **77** ; r = **4**

8) $-1.6, -0.8, -0.4, \dots$

a = **-6.4** ; r = **0.5**

9) $3, -3.3, 3.63, -3.993, 4.3923, \dots$

a = **3** ; r = **-1.1**

10) $-6, -\frac{6\sqrt{7}}{5}, -\frac{42}{25}, -\frac{42\sqrt{7}}{125}, \dots$

a = **-6** ; r = **$\frac{\sqrt{7}}{5}$**

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