

Geometric Sequence

Find the next three terms of each geometric sequence.

1) $1, \sqrt{7}, 7, 7\sqrt{7}, 49, \dots$

2) $3.5, 10.5, 31.5, 94.5, 283.5, \dots$

3) $-16, 64, -256, 1024, -4096, \dots$

4) $\frac{4}{7}, \frac{8}{21}, \frac{16}{63}, \frac{32}{189}, \frac{64}{567}, \dots$

5) $9, 27, 81, 243, 729, \dots$

$\dots, -38.4, -76.8, \dots$

7) $175, -350, 700, -1400, \dots$

$\dots, 2106, \dots$

9) Tony harvested 4 bushels of apples in his orchard. The second and third years he harvested 12 bushels and 36 bushels respectively. How much twine was used for each of the 4th, 5th and 6th loops?

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10) A jute twine was wrapped tightly around a wide basket in 6 loops. The length of the twine used for the first loop measured 28.5 cm. The second and third loops used up 57 cm and 114 cm respectively. How much twine was used for each of the 4th, 5th and 6th loops?

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Geometric Sequence

Find the next three terms of each geometric sequence.

1) $1, \sqrt{7}, 7, 7\sqrt{7}, 49, \dots$

2) $3.5, 10.5, 31.5, 94.5, 283.5, \dots$

$49\sqrt{7}, 343, 343\sqrt{7}$

$850.5, 2551.5, 7654.5$

3) $-16, 64, -256, 1024, -4096, \dots$

4) $\frac{4}{7}, \frac{8}{21}, \frac{16}{63}, \frac{32}{189}, \frac{64}{567}, \dots$

$16384, -65536, 262144$

$\frac{256}{5103}, \frac{512}{15309}$

5) $9, 27, 81, 243, 729, \dots$

$\dots, -38.4, -76.8, \dots$

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$2187, 6561, 19683$

$307.2, -614.4$

7) $175, -350, 700, -1400, \dots$

$\dots, 2106, \dots$

$-5600, 11200, -22400$

$8954, 56862$

9) Tony harvested 4 bushels of apples in his orchard. The second and third harvests were 108 bushels and 324 bushels respectively. How much twine was used for each of the next three years?

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$108, 324, 972$

10) A jute twine was wrapped tightly around a wide basket in 6 loops. The length of the twine used for the first loop measured 28.5 cm. The second and third loops used up 57 cm and 114 cm respectively. How much twine was used for each of the 4th, 5th and 6th loops?

$228 \text{ cm}, 456 \text{ cm}, 912 \text{ cm}$