

Geometric Sequence

Find the next three terms of each geometric sequence.

1) $-4, -12, -36, -108, -324, \dots$

2) $11, 55, 275, 1375, 6875, \dots$

3) $54, 108, 216, 432, \dots$

$38.4, 153.6, \dots$

5) $-\frac{8}{9}, -\frac{2}{3}, -\frac{1}{2}, -\frac{3}{8}, \dots$

$8\sqrt{6}, \dots$

7) $488, 146.4, 43.92, \dots$

$29, -243, \dots$

- 9) Twenty concert tickets were sold by 11 a.m., 11 tickets were issued by 10 a.m., and 320 tickets were sold by 11 a.m. If tickets were issued at the same pace, how many tickets were sold by 12 p.m., 1 p.m. and 2 p.m. respectively?

- 10) Mary began her career with a pay of \$28,000 per annum in the year 2015. The following year her salary was hiked to \$33,600. In 2017, she got a raise and her salary was revised to \$40,320. Determine her earnings for the next three years, assuming her salary continues to increase at the same rate.

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Geometric Sequence

Find the next three terms of each geometric sequence.

1) $-4, -12, -36, -108, -324, \dots$

2) $11, 55, 275, 1375, 6875, \dots$

 $-972, -2916, -8748$ **$34375, 171875, 859375$**

3) $54, 108, 216, 432, \dots$

$88.4, 153.6, \dots$

 $1728, 3456, 6912$ **$457.6, -9830.4$**

5) $-\frac{8}{9}, -\frac{2}{3}, -\frac{1}{2}, -\frac{3}{8}, \dots$

$8\sqrt{6}, \dots$

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 $-\frac{27}{128}, -\frac{27}{64}, -\frac{27}{32}$ **$32\sqrt{6}, -64\sqrt{6}$**

7) $488, 146.4, 43.92, \dots$

$29, -243, \dots$

 $3.9528, 1.1888, 0.3616$ **$-, -27, 9$**

9) Twenty concert tickets were sold by 11 a.m. If tickets were issued at the same pace, how many tickets were sold by 12 p.m., 1 p.m. and 2 p.m. respectively?

 $1280, 5120, 20480$

10) Mary began her career with a pay of \$28,000 per annum in the year 2015. The following year her salary was hiked to \$33,600. In 2017, she got a raise and her salary was revised to \$40,320. Determine her earnings for the next three years, assuming her salary continues to increase at the same rate.

 $\$48,384, \$58,060.80, \$69,672.96$