



**Geometric Sequence**

Find the next three terms of each geometric sequence.

1) 23, -92, 368, -1472, 5888, ...

2)  $\frac{8}{5}, \frac{12}{5}, \frac{18}{5}, \frac{27}{5}, \frac{81}{10}, \dots$

**-23552, 94208, -376832** **$\frac{243}{20}, \frac{729}{40}, \frac{2187}{80}$** 

3) 145, 580, 2320, 9184, ...

3, -576, -1152, ...

**37120, 148480, 593920****-4608, -9216**

5) 1.6, -4.8, 14.4, -43.2, ...

, 544, ...

**-388.8, 1176.48, -3729.44****2176, 4352**

7)  $20, \frac{20\sqrt{2}}{3}, \frac{40}{9}, \frac{40\sqrt{2}}{27}, \dots$

5.1, 105.3, ...

 **$\frac{80}{81}, \frac{80\sqrt{2}}{81}, \frac{80}{27}$** **147.7, 2843.1**

9) Edward drew a series of concentric circles with a common center. The radius of the inner circle measured 6 cm. The second and third circles were drawn with radii of 12 cm and 24 cm respectively. Find the radii for each of the next three concentric circles, if the size of the circles increased at the same rate?

y target. The radius

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**48 cm, 96 cm, 192 cm**

- 10) Day one of a summer camp had a total of 320 registrations. Day two saw 160 registrations and day three witnessed 80 enrollments for the camp. If the number of registrations continued in the same pattern, how many students enrolled on the 4th, 5th and 6th day respectively?

**40, 20, 10**

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