

Name : \_\_\_\_\_

L1S1

## General Sequence - Term

Write the general term of each sequence.

1) 5, 20, 45, 80, 125, ...

2) 3, 6, 11, 18, 27, ...

3) 2,  $2\sqrt{3}$ , 6,  $6\sqrt{3}$ , 1

, 1 ...

5)  $3, \frac{5}{8}, \frac{7}{27}, \frac{9}{64}, \frac{11}{125}$

-24, ...

7) Find the tenth term

8) Find the twelfth term of the sequence -10, -30, -60, -100, -150, ...

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## General Sequence - Term

Write the general term of each sequence.

1) 5, 20, 45, 80, 125, ...

2) 3, 6, 11, 18, 27, ...

$$a_n = 5n^2 \text{ for all } n \geq 1$$

$$a_n = n^2 + 2 \text{ for all } n \geq 1$$

3) 2,  $2\sqrt{3}$ , 6,  $6\sqrt{3}$ , 18, ...

3, 1, ...

$$a_n = 2 \cdot (\sqrt{3})^n$$

$$a_n = 2n \text{ for all } n \geq 1$$

5)  $3, \frac{5}{8}, \frac{7}{27}, \frac{9}{64}, \frac{11}{125}, \dots$

-24, ...

$$a_n = \frac{2n + 1}{n^3}$$

$$a_n = n^2 \text{ for all } n \geq 1$$

7) Find the tenth term of the sequence

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8) Find the twelfth term of the sequence -10, -30, -60, -100, -150, ...

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