

SEQUENCES

A NUMERICAL SEQUENCE

A.1 FINDING NEXT NUMBER IN ARITHMETIC SEQUENCE

Ex 1:

6, 9, 12, 15, 18

Answer:

$\overset{+3}{\curvearrowright}$ 6, $\overset{+3}{\curvearrowright}$ 9, $\overset{+3}{\curvearrowright}$ 12, $\overset{+3}{\curvearrowright}$ 15, 18

Ex 2:

30, 28, 26, 24, 22

Answer:

$\overset{-2}{\curvearrowright}$ 30, $\overset{-2}{\curvearrowright}$ 28, $\overset{-2}{\curvearrowright}$ 26, $\overset{-2}{\curvearrowright}$ 24, 22

Ex 3:

50, 100, 150, 200, 250

Answer:

$\overset{+50}{\curvearrowright}$ 50, $\overset{+50}{\curvearrowright}$ 100, $\overset{+50}{\curvearrowright}$ 150, $\overset{+50}{\curvearrowright}$ 200, 250

Ex 4:

20, 17, 14, 11, 8

Answer:

$\overset{-3}{\curvearrowright}$ 20, $\overset{-3}{\curvearrowright}$ 17, $\overset{-3}{\curvearrowright}$ 14, $\overset{-3}{\curvearrowright}$ 11, 8

Ex 5:

7, 14, 21, 28, 35

Answer:

$\overset{+7}{\curvearrowright}$ 7, $\overset{+7}{\curvearrowright}$ 14, $\overset{+7}{\curvearrowright}$ 21, $\overset{+7}{\curvearrowright}$ 28, 35

Ex 6:

36, 31, 26, 21, 16

Answer:

$\overset{-5}{\curvearrowright}$ 36, $\overset{-5}{\curvearrowright}$ 31, $\overset{-5}{\curvearrowright}$ 26, $\overset{-5}{\curvearrowright}$ 21, 16

A.2 FINDING NEXT NUMBER IN GEOMETRIC SEQUENCE

Ex 7:

1, 2, 4, 8, 16

Answer:

$\overset{\times 2}{\curvearrowright}$ 1, $\overset{\times 2}{\curvearrowright}$ 2, $\overset{\times 2}{\curvearrowright}$ 4, $\overset{\times 2}{\curvearrowright}$ 8, 16

Ex 8:

1, 3, 9, 27

Answer:

$\overset{\times 3}{\curvearrowright}$ 1, $\overset{\times 3}{\curvearrowright}$ 3, $\overset{\times 3}{\curvearrowright}$ 9, 27

Ex 9:

32, 16, 8, 4, 2

Answer:

$\overset{\div 2}{\curvearrowright}$ 32, $\overset{\div 2}{\curvearrowright}$ 16, $\overset{\div 2}{\curvearrowright}$ 8, $\overset{\div 2}{\curvearrowright}$ 4, 2

Ex 10:

81, 27, 9, 3

Answer:

$\overset{\div 3}{\curvearrowright}$ 81, $\overset{\div 3}{\curvearrowright}$ 27, $\overset{\div 3}{\curvearrowright}$ 9, 3

Ex 11:

3, 6, 12, 24

Answer:

$\overset{\times 2}{\curvearrowright}$ 3, $\overset{\times 2}{\curvearrowright}$ 6, $\overset{\times 2}{\curvearrowright}$ 12, 24

$\bullet 2 \times 12 = 12 + 12 = 24$