

1.9 What Does It Mean?

Fill in the missing boxes if we know the sequence is arithmetic.

x	1	2	3	4	5
y	20	30	40	50	60

$\begin{matrix} \curvearrowright \\ +10 \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +10 \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +10 \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +10 \end{matrix}$

x	1	2	3	4	5
y	9	11	13	15	17

x	1	2	3	4
y	23	20	17	14

x	1	2	3	4
y	5	51	97	143

$\begin{matrix} \curvearrowright \\ +46 \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +46 \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +46 \end{matrix}$

x	1	2	3	4	5	6
y	12	19	26	33	40	47

$+7$

x	1	2	3	4	5	6	7
y	7	10.5					28

$\begin{matrix} \curvearrowright \\ +d \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +d \end{matrix}$
 $\begin{matrix} \curvearrowright \\ +d \end{matrix}$
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 $\begin{matrix} \curvearrowright \\ +d \end{matrix}$

$$\begin{array}{r}
 12 + 5d = 47 \\
 -12 \quad -12 \\
 \hline
 5d = 35 \\
 \hline
 5 \quad 5 \\
 \hline
 d = 7
 \end{array}$$

$$\begin{array}{r}
 7 + 6d = 28 \\
 -7 \quad -7 \\
 \hline
 6d = 21 \\
 \hline
 6 \quad 6 \\
 \hline
 d = 3.5
 \end{array}$$