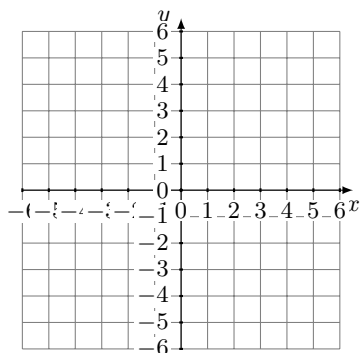


Arithmetic sequences

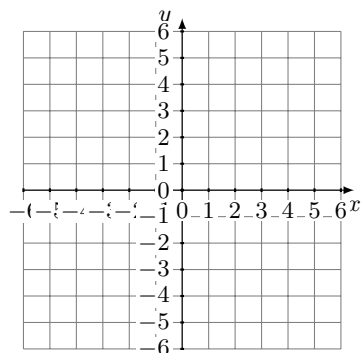
Answer the questions in the spaces provided on the question sheets. Be sure to **show your work to earn full credit**. You **MAY** use a calculator to help you. If you run out of room for an answer, raise your hand to ask for an extra piece of paper.

Name and period: _____

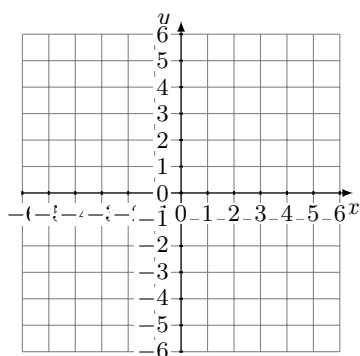
- 1) Graph the first 5 terms of the sequence
(1, 3, 5, 7, 9, ...)



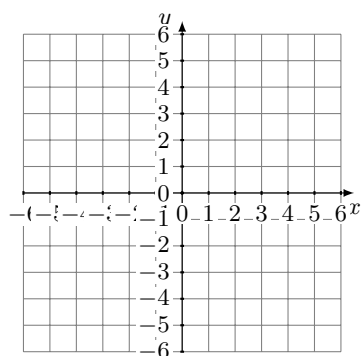
- 4) Graph the first 5 terms of the sequence
 $(\frac{1}{2}, 1, \frac{3}{2}, 2, \frac{5}{2}, 3, \dots)$



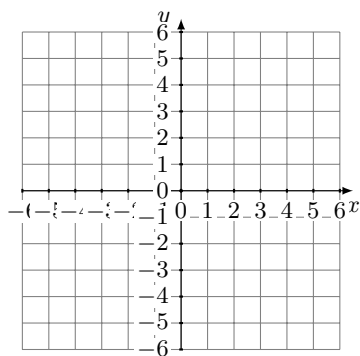
- 2) Graph the first 4 terms of the sequence
(1, 2, 4, 8, ...)



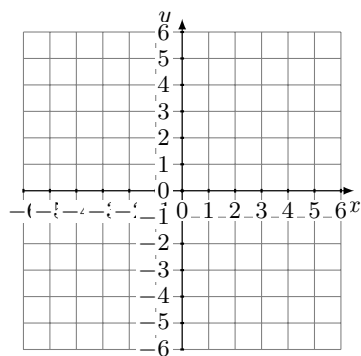
- 5) Graph the first 5 terms of the sequence
(-2, 0, 2, 4, 6, 8, ...)



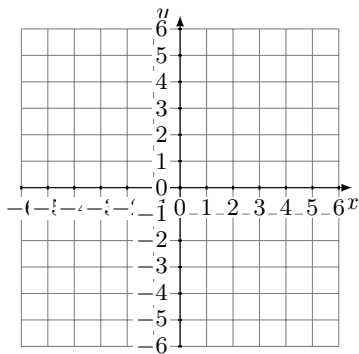
- 3) Graph the first 4 terms of the sequence
(-4, 0, 4, 8, ...)



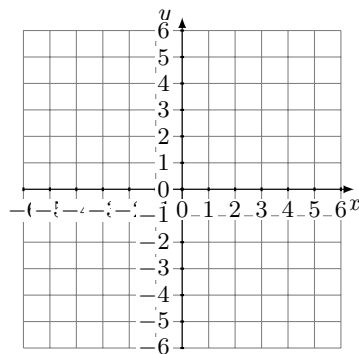
- 6) Graph the first 4 terms of the sequence
(2, 4, 8, 16, 32, ...)



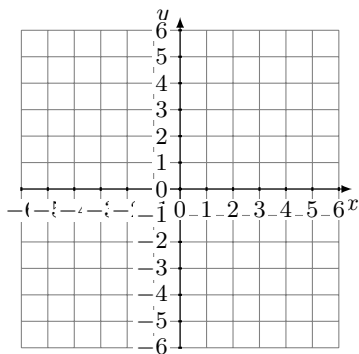
- 7) Graph the first 5 terms of the sequence $(-\frac{3}{2}, -\frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{5}{2}, \dots)$



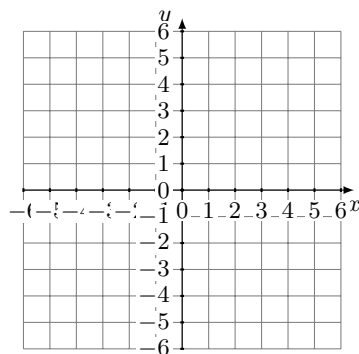
- 11) Is the sequence $(-5, -1, 3, 7, \dots)$ an arithmetic sequence?



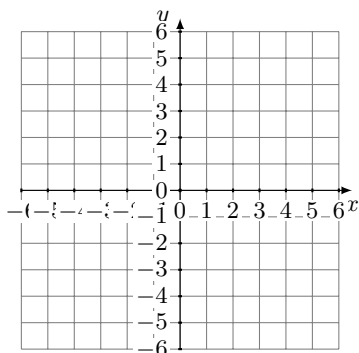
- 8) Is the sequence $(1, 2, 4, 8, \dots)$ an arithmetic sequence?



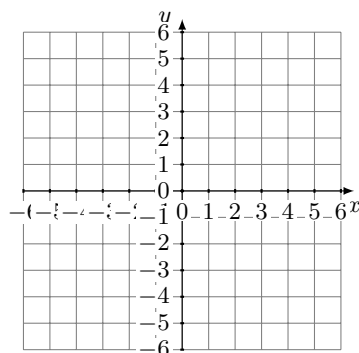
- 12) Is the sequence $(3, 0, -3, -6, \dots)$ an arithmetic sequence?



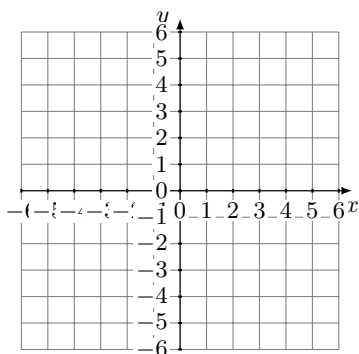
- 9) Is the sequence $(0, 2, 4, 6, 8, \dots)$ an arithmetic sequence?



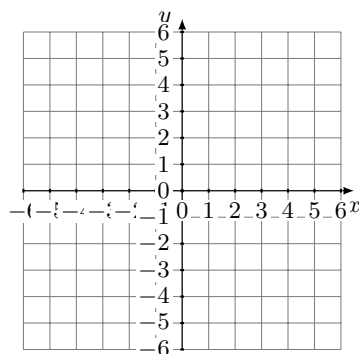
- 13) Is the sequence $(-1, -2, -4, -8, \dots)$ an arithmetic sequence?



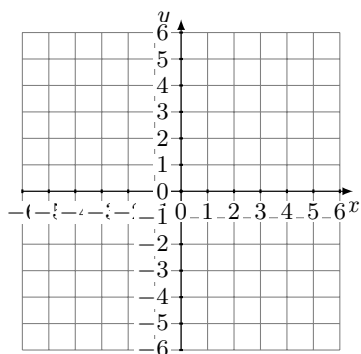
- 10) Is the sequence $(1, 4, 7, 10, \dots)$ an arithmetic sequence?



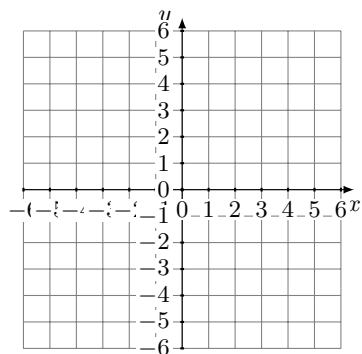
- 14) Is the sequence $(-3, -6, -9, -10, \dots)$ an arithmetic sequence?



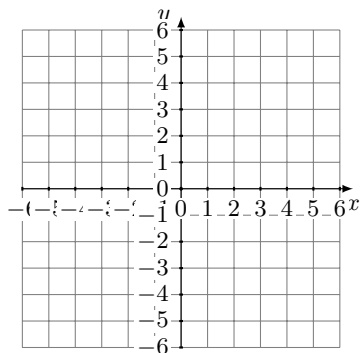
- 15) Is the sequence $(-2, 2, 6, 10, \dots)$ an arithmetic sequence?



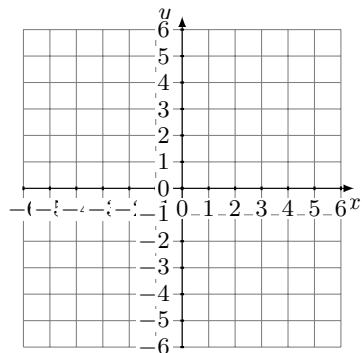
- 18) Write the equation of the arithmetic sequence shown in the graph.



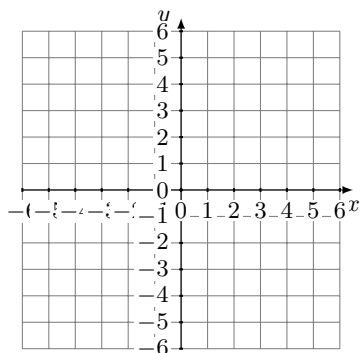
- 16) Write the equation of the arithmetic sequence $(2, 4, 6, 8)$.



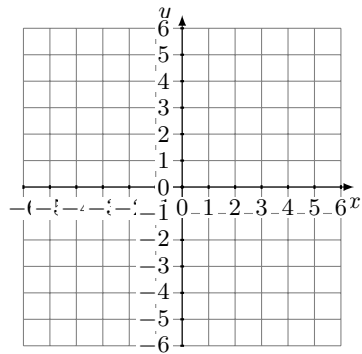
- 19) Write the equation of the arithmetic sequence $(-5, -1, 3, 7)$.



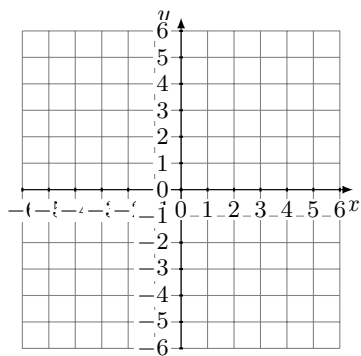
- 17) Write the equation of the arithmetic sequence shown in the graph.



- 20) Write the equation of the arithmetic sequence $(3, 0, -3, -6)$.



- 21) Write the equation of the arithmetic sequence $(10, 5, 0, -5, -10)$.



- 22) Write the equation of the arithmetic sequence $(\frac{3}{2}, \frac{1}{2}, -\frac{1}{2}, -\frac{3}{2}, -\frac{5}{2})$.

