Name $\qquad$ Date $\qquad$
4.6 Practice Worksheet

1 - 6: Write the next three terms of the arithmetic sequence. Show all work for full credit.

1. $1,8,15,22, \ldots$
2. $20,14,8,2, \ldots$
3. $12,21,30,39, \ldots$
4. $5,12,19,26, \ldots$
5. $3,7,11,15, \ldots$
6. $2,14,26,38, \ldots$

7-12: Graph the arithmetic sequence.
7. $1,3,5,7, \ldots$

8. $9,6,3,0, \ldots$

9. $\frac{15}{2}, \frac{13}{2}, \frac{11}{2}, \frac{9}{2}, \ldots$

10. $1,2.5,4,5.5, \ldots$

11. $1,4,7,10, \ldots$

12. $\frac{1}{4}, \frac{5}{4}, \frac{9}{4}, \frac{13}{4}, \ldots$


13 - 15: Determine whether the graph represents an arithmetic sequence. Explain your answer in a complete sentence.

14.

15.


16 - 21: Write an equation for the $n$th term of the arithmetic sequence. Then find $a_{10}$. Show all work for full credit.
16. $-5.4,-6.6,-7.8,-9.0, \ldots$
17. $43,38,33,28, \ldots$
18. $6,10,14,18, \ldots$
19. $-11,-9,-7,-5, \ldots$
20. $34,37,40,43, \ldots$
21. $\frac{9}{4}, \frac{7}{4}, \frac{5}{4}, \frac{3}{4}, \ldots$
22. In an auditorium, the first row of seats has 30 seats. Each row behind the first row has 4 more seats than the row in front of it. How many seats are in the 25 th row?

