Name: _____ Date: _____

Write the <u>explicit rule</u> AND the <u>recursive rule</u> for each arithmetic sequence. Show your checked work for both:

1. 8, 11, 14, 17, …

2. 25, 16, 7, -2, …

3. -9, -4, 1, 6, …

4. 8, 5.5, 3, 0.5, …

Find the nth term for each arithmetic sequence:

5. $a_1 = 13$, $d = -2$, $n = 8$

6. $a_1 = 7$, $d = 3/2$, $n = 17$

Convert between explicit and recursive:

7. $a_n = -2n + 11$

8. $a_n = a_{n-1} + 7;\ a_1 = -3$

9. $a_n = a_{n-1} - 5;\ a_1 = 0$

10. $a_n = n - 16$