**M3 ARITHMETIC SEQUENCES HW** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Write the Recursive and Explicit formula for the following sequences:*

1. $-40, -33, -26, -19,…$ 2. $5.2, 7, 8.8, 10.6, …$

3. $-2, -9, -16, -23, …$ 4. $75, 80, 85, …$

5. Find the next 5 terms if$a\_{1}=6, d=-4$ 6. In an arithmetic sequence, the first term is $\frac{-1}{3}$ and the

 Common difference is $-2$. What is the 8th term?

7. Find $a\_{29}$ of the sequence $182, 176, 170…$ 8. The 12th term of an arithmetic sequence is 30 and the

 Common difference is 3. Find the first term.

9. Find the number of terms in the sequence: 10. Which term is 153 if the sequence begins $-9, -3, 3, 9…$

$$ -6, -2, 2, …158$$

11. In an arithmetic sequence, $a\_{13}=2 and a\_{21}=4.$ 12. In an arithmetic sequence, $a\_{16}=40 and a\_{22}=58.$

 Find $a\_{101.}$ Find $a\_{32}$.

13. Find the common difference if the first term 14. The 3rd term of an arithmetic sequence is 2 and the 18th

Of an arithmetic sequence is 2 and the 11th term is 9.5. term is 47. Find the common difference.