

Name _____

Date _____

LESSON 8.1 WORKSHEET

**Write the polynomial so that the exponents decrease from left to right.
Identify the degree and leading coefficient of the polynomial.**

1. $8n^6$

2. $-9z + 1$

3. $4 + 2x^5$

4. $18x - x^2 + 2$

5. $3y^3 + 4y^2 + 8$

6. $m - 20m^3 + 5$

7. $-8 + 10a^4 - 3a^7$

8. $4z + z^3 - 5z^2 + 6z^4$

Find the sum or difference.

16. $(6x + 4) + (x + 5)$

17. $(4m^2 - 5) + (3m^2 - 2)$

18. $(2y^2 + y - 1) + (7y^2 + 4y - 3)$

19. $(3x^2 + 5) - (x^2 + 2)$

20. $(10a^2 + 4a - 5) - (3a^2 + 2a + 1)$

21. $(m^2 - 3m + 4) - (-m^2 + 5m + 1)$

Write a polynomial that represents the perimeter of the figure.

22.

