Classifying Even and Odd Functions - Independent Practice Worksheet

Classify all the functions as either even, odd, or neither.

1. \( f(x) = x^2 + x^4 - x^6 \)

2. \( f(x) = |x| + 6 \)

3. \( f(x) = x^2 \)

4. \( f(x) = 10x^3 - 4x^2 + 3x - 8 \)

5. \( f(x) = x^4 + x^8 - x^{10} \)

6. \( f(x) = -2x^2 + 1 \)

7. \( f(x) = x^4 + x^8 - x^{16} \)

8. \( f(x) = x^2 + x - 1 \)

9. \( f(x) = -x^7 + 8x^5 - x^3 + 6x \)

10. \( f(x) = x^6 + x^{12} - x^{18} \)