

Concept HW_Grade-6_An Introduction to Algebra

Operations on Variables

Simplify the following polynomial expressions.

1) $4r^2 + 2 - 5r^2 + 6r^8 - 13 - r^8$

2) $7x^6 + 2x^2(-5x^4 + 9) - 10x^2$

3) $2p^9 - (9p - 5) + 10p^9 + 4$

4) $-15 + 8a^4 + a(3a^2 + 5a^3) + 11$

5) $14 - 5(2u^2 - 12u^3) - 3u^3 - 8$

6) $9t^5 + 6(-2t^4 + 3t^5 - 4) + 13$

7) $-11 - 9(2v^7 + 7v^2) + 8v^2 + 1$

8) $-k(-6k^9 - 15) + 10 - 12k^{10} - 5$