

D1 - Alg 3-4 Polynomial Operations HW

Find each product.

1) $(-4n - 2)(5n + 2)$

2) $(4x - y)(5x + 2y)$

3) $(3x - 3y)(5x + y)$

4) $(3u - 4v)(u^2 - 7uv - 8v^2)$

5) $(7x - 6y)(4x^2 - 2xy + 5y^2)$

6) $(2x - 6y)(4x^2 + 4xy - 8y^2)$

7) $(3x + 8y)(4x^2 + 3xy - 5y^2)$

8) $(6x^2 + 6xy + y^2)(2x^2 + 8xy - 7y^2)$

Simplify each expression.

9) $(5v + 5 - 2v^4) + (4v^4 - 3 + 8v)$

10) $(2n^3 - 5n^4 - 2) + (2n^3 - 2n - 3n^4)$

11) $(3v - 2 + 7v^2) - (v^2 - 1 - v)$

12) $(4k^2 + 3k^4 + 5k) + (8k + 8k^2 + 7k^3)$

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

14) $(3v^2 + 5 + v^3) - (6v^2 - 6v^3 - 7)$