

Polynomials Workday

Write each polynomial in standard form. Then name each polynomial by degree and number of terms.

1) $-9n^2 - 3n^3 + 10$

2) $9x^2 + 8x^5$

3) $2x^4 - 3 + 8x - 3x^3$

4) 9

Simplify each expression.

5) $(2p^3 + 8p) - (p^3 - 4p - 4p^2)$

6) $(x^4 + 3x^3) + (5x^2 - 8x^4 - 2x^3)$

7) $(6b^3 + 3b + 6b^2) + (6b - 7b^2 - b^3)$

8) $(5n^2 + 8n^4 - n) - (2n^3 + 7n^4 - 6n^2)$

Find each product.

9) $3a(a - 8)$

10) $(4x - 4)(8x + 5)$

$$11) \cdot (7n + 1)(5n + 1)$$

$$12) (4v + 3)(2v^2 - 7v - 3)$$

$$13) (b - 2)(4b^2 - 3b + 3)$$

$$14) (6x - 8)(6x + 8)$$

$$15) (2x - 5)^2$$

16) The length of a rectangle is $4x - 6y$ and the width is $2x + 8y$.

a) What is the perimeter of the rectangle?

b) What is the area of the rectangle?