

1.2 Classifying and Distributing Polynomials

With each polynomial name the type, the degree, how many terms, all coefficients, and all constants.

1) $-3k^5$
Type:

Degree:

Number of Terms:

Coefficients:

Constants:

2) $5n - 7$
Type:

Degree:

Number of Terms:

Coefficients:

Constants:

3) $-7x^5 - 2x^4 + 4x^2 + 5$
Type:

Degree:

Number of Terms:

Coefficients:

Constants:

4) $7x^2$
Type:

Degree:

Number of Terms:

Coefficients:

Constants:

5) -9
Type:

Degree:

Number of Terms:

Coefficients:

Constants:

6) $-5x^4 + 10x^3$
Type:

Degree:

Number of Terms:

Coefficients:

Constants:

7) Define what it means to be for terms to be "like terms".

Simplify each expression.

8) $-7(n - 5)$

9) $-2(9n - 2)$

10) $3(n - 7)$

11) $10(3b - 3)$

12) $-10(5 - 10m)$

13) $-8(x - 10) + 2$

14) $6(-4 + 9x) - 6(-6x + 4)$

15) $7(6n + 2) + 2(n - 2)$

16) $-4(2 + 4v) + 6(1 - 6v)$

17) $5(3 + 9n) + 3(n - 2)$

18) $-7(10m - 4) - 7(-9 + 4m)$

19) $9(-6x - 6) + 3(6x + 9)$

20) $3(x + 2) + 4(-3 + 3x)$

21) $-(7 - 7p) + 10(1 - 9p)$