Section 2.1 – Polynomials

Problem Set 3

Identify the following expressions as polynomials, monomials or neither. For the expressions that are polynomials, give their degree and list their terms.

1. $n^{12} + 3$

2. $c^{-3} + 4$

3. $-2w^3 + \dfrac{4c^2}{2c^2}$

4. $3a^4 - p + 2$

5. a^9

6. $m^3 - 3n + \dfrac{4o^5 p^2}{8}$

7. $a^2 + 4h^8 - 3r^{12}$

8. $y^5 + t^7 - 18$

9. $-4a + 2b^3c^{12} + 9$

10. $x^4 afd + d^2 - 3x^{10}$

11. $4.1j + 6.22k - 4.2k$

12. $j^{\frac{11}{3}}$

Simplify the following expressions and identify them as polynomials, monomials or neither.

13. $\dfrac{5b^4 - 3b + c}{4} + c$

14. $-\dfrac{6m^2}{7} + n + m$

15. $-2g^4 + 2g^3 - h + 7$

16. $12b^3 \cdot a \cdot b^4$

17. $8p - 2p + 9$

18. $7xy^2 + xy$

19. $4h - 6j$

20. $-2 + 3b + 3c^2 - b$