

Simplify the following.

1.  $x^4x^7$

2.  $xx^5$

3.  $(x^3)^4$

4.  $(2x)^3$

5.  $\frac{3x^5}{12x^3}$

6.  $(x^{-3})^{-2}$

Perform operations, combine like terms, and write in descending order.

7.  $x^2 + 7x - 10 + 4x^2 - 2x + 4$

8.  $-(3x^2 + 3x - 7)$

9.  $3(4x^2 + 6x - 3)$

Evaluate the polynomial functions.

10.  $f(x) = 3x^2 + 6x + 1$                        $f(-2) =$

11.  $g(x) = x^3 + 4x^2 - 5x + 7$                        $g(3) =$

12.  $h(x) = 9.8x^2 + 45.3x + 102.5$                        $h(2.3) =$

13.  $A = P + 1.065P$                       Find A when  $P = 1200$

Calculate the following

15.  $(2.3 \times 10^8)(4.7 \times 10^9)$

16.  $\frac{5.1 \times 10^{14}}{1.26 \times 10^{-23}}$

17.  $(9.8 \times 10^{-22})(-3.4 \times 10^{25})$

18.  $2300.43(6.67 \times 10^9)$