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Math\_Questions\_0011

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Multiply:

1.  $(x^4 + 2)(x - 10)$

Solution:

2.  $\left(x - \frac{3}{8}\right)\left(x + \frac{4}{7}\right)$

Solution:

3.  $(5y^6 - 3y^3)(2y^6 + 2y^3)$

Solution:

4.  $\left(\frac{3}{4} + 2x^3\right)\left(\frac{3}{4} - 2x^3\right)$

Solution:

5.  $\left(3x + \frac{3}{4}\right)^2$

Solution:

6.  $(0.3y - 2.4)^2$

Solution:

7.  $\left(\frac{1}{5}x^2 - 9\right)\left(\frac{3}{5}x^2 + 7\right)$

Solution:

8.  $(y - 5)(y^2 + 5y + 25)$

Solution:

9. Identify the coefficient and the degree of each term of the polynomial. Then find the degree of the polynomial  $6 - xy + 8x^2y^2 - y^5$ .

Solution:

10. Collect Like terms:  $3x^2 + 6xy + 3y^2 - 5x^2 - 10xy - 5y^2$

Solution:

11. Add:  $(2x^2 - 3xy + y^2) + (-4x^2 - 6xy - y^2) + (x^2 + xy - y^2)$

Solution:

12. Subtract:  $(3y^4x^2 + 2y^3x - 3y - 7) - (2y^4x^2 + 2y^3x - 4y + 5)$

Solution:

13. Subtract  $5a + 2b$  from the sum of  $2a + 3b$  and  $3a - 2b$ .

Solution:

14. Multiply:  $(m^2 + n^2 - mn)(m^2 + mn + n^2)$

Solution:

15. Multiply:  $(x - y^3)(2y^3 + x)$

Solution:

16. Multiply:  $(x+a)(x-b)(x-a)(x+b)$

Solution:

17. Divide:  $\frac{5x^6y^4 + 20x^4y^3 - 15x^3y^2}{5x^3y^2}$

Solution:

18. Divide:  $x+3 \overline{)x^2 + 7x + 10}$

Solution:

19. Divide:  $\frac{x^2 - 25}{x - 5}$

Solution:

20. Divide:  $\frac{2x^3 - 9x^2 + 11x - 3}{2x - 3}$

Solution:

21. Divide:  $(x^2 + 8x - 16) \div (x + 4)$

Solution:

22. Divide:  $(x^2 + 5x - 9) \div (x - 2)$

Solution:

23. Divide:  $(x^6 + 5x^3 - 24) \div (x^3 - 3)$

Solution:

24. Divide:  $(t^3 - t^2 + t - 1) \div (t + 1)$

Solution:

25. Divide:  $(y^4 + a^2) \div (y + a)$

Solution: