

Station 4

Simplify the following polynomial expressions completely.

$$18. \frac{12x^3y^{-5}}{15x^2y^{-2}} = \frac{4x^4y^2}{5y^3} = \boxed{\frac{4x^4}{5y^3}}$$

$$19. \frac{x^2(y^{-5}z)^{-2}}{x^5y(z^0)} = \frac{x^2y^4z^{-2}}{x^5y^1z^0} = \frac{x^2x^3y^4}{y^1z^2} = \boxed{\frac{x^5y^3}{z^2}}$$

$$20. (3x^2 + 4x - 5) + (x^2 - 7x + 1) \\ \underline{3x^2 + 4x - 5} \quad \underline{+ x^2 - 7x + 1} \\ \hline \boxed{4x^2 - 3x - 4}$$

$$21. (2x^2 - 5) - (4x^2 - x - 6) \text{ Distribute } \ominus \\ \underline{2x^2 - 5} \quad \underline{- 4x^2 + x + 6} \\ \hline \boxed{-2x^2 + x + 1}$$

Simplify the following polynomial expressions completely.

$$22. 4x^2(x^2 - 6x + 1) \\ \boxed{4x^4 - 24x^3 + 4x^2}$$

$$23. (5x^2 + 4xy)(xy - 2y) \\ \boxed{5x^3y - 10x^2y + 4x^2y^2 - 8xy^2}$$

Factor Completely.

$$24. x^4 - x^2 - 12 \\ (x^2 - 4)(x^2 + 3) \\ \boxed{(x - 2)(x + 2)(x^2 + 3)}$$

$$25. x^4 - 9x^2 \\ x^2(x^2 - 9) \\ \boxed{x^2(x - 3)(x + 3)}$$

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