Simplify

$$(5x^3 + 9x - 6) + (4x^2 - 3x + 10)$$

$5x^3 + 4x^2 + 6x + 4$

Simplify

$$(9x^2 - 9x + 2) - (2x^2 - 6x - 8)$$

$9x^2 - 9x + 2 - 2x^2 + 6x + 8$

$7x^2 - 3x + 10$

Simplify

$$(6x^3 - 5x^2 + x - 2) - (4x^3 - 9x^2 + x + 9)$$

$2x^3 + 4x^2 - 11$

Use exponent rules to simplify with only positive exponents.

$$5^5 \cdot 5^3 =$$

~~$5x^8$~~ 5^8

Use exponent rules to simplify with only positive exponents.

$$x^5 \cdot x^4 =$$

x^9

$x^5 + x^4$

x^9

Use exponent rules to simplify with only positive exponents.

$$m^7 \cdot m \cdot m^{-3} =$$

m^5

Use exponent rules to simplify with only positive exponents.

$$(p^{11}m^5)(p^8m^{-1}) =$$

$p^{19}m^6$

Use exponent rules to simplify with only positive exponents.

$$5x^8 \cdot 4x^6 =$$

$20x^{14}$

Use exponent rules to simplify with only positive exponents.

$$3x^6p^5 \cdot 9x^3p^7 =$$

$27x^9p^{12}$

Use exponent rules to simplify with only positive exponents.

$$(7a^4b^3)(2a^7b^{12}) =$$

$14a^{11}b^{15}$

Use exponent rules to simplify with only positive exponents.

$$\frac{p^3n^2}{pn^7} =$$

$$\frac{p^2}{n^5}$$

Use exponent rules to simplify with only positive exponents.

$$\frac{d^9p^8x^2w^2}{d^9p^2x^{12}w^4} =$$

$$= \frac{p^6}{x^{10}w^2}$$

Use exponent rules to simplify with only positive exponents.

$$\frac{6x^4p^2}{18x^2p^3} = \frac{x^2}{3p}$$

$$= \frac{x^2}{3p}$$

Use exponent rules to simplify with only positive exponents.

$$-\frac{4w^7p^4}{16w^3p^3} =$$

$$= \frac{-w^4p}{4}$$

Use exponent rules to simplify with only positive exponents.

$$x^0 =$$

$= 1$

Use exponent rules to simplify with only positive exponents.

$$2^{-3} =$$

$= \frac{1}{8}$

Use exponent rules to simplify with only positive exponents.

$$x^{-8}n^{2}y^{0}w^{-6}p^{-5} =$$

$$= \frac{n^2}{x^8 w^6 p^5}$$

Use exponent rules to simplify with only positive exponents.

$$\frac{6x^{-5}p^{-4}}{3m^{8}} =$$

$$= \frac{2}{x^5 p^4 m^8}$$

Use exponent rules to simplify with only positive exponents.

$$\frac{7x^{-7}y^4}{14x^4y} =$$

$= \frac{y^3}{2x^{11}}$

Use exponent rules to simplify with only positive exponents.

$$(3n^3)^3 = 3^3 n^9$$

$= 27n^9$

Use exponent rules to simplify with only positive exponents.

$$(-2p^3)^4 =$$

$= 16p^{12}$

Use exponent rules to simplify with only positive exponents.

$$(x^{-4}m^2y^{-3}p^4)^2 =$$

$= x^{-8}m^4y^{-6}p^8$

$= \frac{m^4p^8}{x^8y^6}$

Use exponent rules to simplify with only positive exponents.

$$\left(\frac{x^5}{w^2}\right)^3 =$$

$$= \frac{x^{15}}{w^6}$$

Use exponent rules to simplify with only positive exponents.

$$\left(\frac{2w^9}{3k^7}\right)^4 =$$

$$= \frac{16w^{36}}{81k^{28}}$$

Use exponent rules to simplify with only positive exponents.

$$\left(\frac{8x^6m^4w^3}{4x^4m^4w^6}\right)^2 =$$

$$= \left(\frac{2x^2}{w^3}\right)^2$$

$$= \frac{4x^4}{w^6}$$

Use exponent rules to simplify with only positive exponents.

$$\left(4x^7y^5\right)^3 \cdot \left(8xy^5\right)^2$$

$$= 64x^{21}y^{15} \cdot 64x^2y^{10}$$

$$= 4096x^{23}y^{25}$$

Use exponent rules to simplify with only positive exponents.

$$\frac{-10x^{-4}m^3p^{-2}}{2xw^2m^5} \cdot \frac{3xm^7w^3}{8p^5m^6} =$$

$= \frac{-5}{x^5 w^2 p^2 m^2} \cdot \frac{3x m^7 w^3}{8p^5}$

$= \frac{-15w}{8x^4 p^7 m}$

Use exponent rules to simplify with only positive exponents.

$$\left(\frac{xy^2}{6x^4y}\right)^3 \cdot \left(\frac{3x^5y}{xy^6}\right)^4 =$$

$= \left(\frac{y}{6x^3}\right)^3 \cdot \left(\frac{3x^4}{y^5}\right)^4$

$= \frac{y^3}{6^3 x^9} \cdot \frac{81x^{16}}{y^{20}}$

$\frac{3 \cdot 3 \cdot 3 \cdot 3}{2 \cdot 3 \cdot 2 \cdot 3 \cdot 2 \cdot 3}$

$= \frac{3x^7}{8y^{17}}$

$$\left(\frac{xy^2}{6x^4y}\right)^3 \cdot \left(\frac{3x^5y}{xy^6}\right)^4 =$$

$$\left(\frac{y}{6x^3}\right)^3 \cdot \left(\frac{3x^4}{y^5}\right)^4$$

$$\left(\frac{xy^2}{6x^4y}\right)^3 \cdot \left(\frac{3x^5y}{xy^6}\right)^4 =$$

$$\frac{x^3y^6}{216x^{12}y^3}$$