To divide a polynomial by a monomial, divide each term separately by the denominator. Simplify each resulting fraction by dividing the coefficients and subtracting the exponents when you have the same variable.

$$\frac{9x^3y^4 - 6x^4y^3}{3x^2y} = \frac{9x^3y^4}{3x^2y} - \frac{6x^4y^3}{3x^2y} = 3xy^3 - 2x^2y^2$$