

Correct. Monomials are divided by dividing the coefficients and dividing the variables. When you have the same variable, you can subtract the exponents.

$$\frac{49x^5y^2}{7x^2y^2} = \frac{49}{7} \cdot \frac{x^5}{x^2} \cdot \frac{y^2}{y^2} = 7 \cdot x^3 \cdot 1 = 7x^3$$

The exponent for the variable x is 3.