

Use the Properties of Exponents to simplify each expression

1.  $(5xy^4)(3x^2)$   $15x^3y^4$

2.  $-3(xy^2)^2$   $-3x^2y^4$

3.  $(-3xy^2)^2$   $9x^2y^4$

4.  $\frac{a^m b^{2m}}{a^3 b^3}$   $a^{m-3} b^{2m-3}$

