

## 10350 Laws of Exponents - Sample Questions Set 01

Simplify the following expressions by collecting all like terms. The final answer should have no radicals and no negative exponents.

1.  $(2ab)^2 (a^2b^{-2})^5$

2.  $\left(\frac{m}{3n}\right)^5 \left(\frac{8n^3}{m^{15}}\right)^{1/3}$

3. Let  $x$  and  $y$  be positive.

$$\sqrt{3x^5} \cdot \sqrt{\frac{2x}{27y^{-2}}}$$