Directions: Simplify the following exponential expressions.

#1 $(x^{3})^{6}=$ \_\_\_\_\_\_\_\_\_\_\_\_ #2 $x^{8}$·$x^{3}=$\_\_\_\_\_\_\_\_\_\_\_\_

#3 $\frac{y^{8}}{y^{5}}=$ \_\_\_\_\_\_\_\_\_\_\_\_ #4 $\left(\frac{x}{y}\right)^{9}=$\_\_\_\_\_\_\_\_\_\_\_\_

#5 $ (xy^{3})^{2}=$\_\_\_\_\_\_\_\_\_\_\_\_ #6 $\frac{5x^{7}}{x^{3}}=$\_\_\_\_\_\_\_\_\_\_\_\_

#7 $(3x^{7})^{2}=$\_\_\_\_\_\_\_\_\_\_\_\_ #8 $6x^{6}$·$2x^{4}=$\_\_\_\_\_\_\_\_\_\_\_\_