## Practice 1.3

Simplify each expression. Write your answer in exponential notation.

$$\boxed{ \left( \left( \frac{1}{8} \right)^3 \right]^6 \left( \frac{1}{8} \right)^{18} }$$

$$9 [(2y)^3]^8 (2y)^{24}$$

$$(x^6)^3 x^{18}$$

$$(57p)^4$$
  $(57p)^{16}$ 

12 
$$[(-p)^2]^{11} p^{22}$$

$$(a^3)^2 = a^{3+2}$$

Math Journal Michael thinks that 
$$(a^3)^2 = a^5$$
. Is he correct? Why? Michael is wrong.
$$(a^3)^2 \stackrel{?}{=} a^5$$

$$(a^3)^2 = a^{3+2}$$

$$= a^5$$

$$a^6 \neq a^5$$