Exponents - Power Rule

$$\left(x^{m}\right)^{n} = x^{m \cdot n}$$

Directions: Find the value of each expression.

1. $\left(10^{2}\right)^{3}$

2. $\left(-2^{3}\right)^{3}$

3. $\left(-3^{2}\right)^{2}$

Directions: Simplify each expression.

4. $\left(-\frac{2}{5}r^2s^3\right)^2$

5. $\left(-x^3y^5z\right)^7$

6. $\left(2x^5\right)^2\left(-3x^3y^4\right)^3\left(-8y^8\right)$

7. $\left(\frac{1}{9x^2y}\right)^2$

8. $\left(-\frac{2}{5x^3y^5}\right)^3$