

Name: _____

HW # _____

Each question below is FALSE. Correct each statement to make it true.

1. $4^0 = 0$ _____

2. $3^{-2} = -9$ _____

3. $m^2 + m^3 = m^5$ _____

4. $3^{70} < (3^{30})^2$ _____

5. $0^0 = 1$ _____

Use the laws of exponents to simplify each expression below to a single power to a positive exponent. Evaluate where possible.

1.) $(x^3)^2$

2.) $(a^{-3})^2$

3.) $(p^4 \div p^6)^3$

4.) $(a^3 \cdot a^2 \cdot a^{-4})^2$

5.) $(n^8 \div n^9)^2$

6.) $(g^{-3} \cdot g^{-2})^{-1}$

7.) $\frac{(n^6)^6}{(n^4)^5}$