Zero and Negative Exponents Worksheet

1. Evaluate the following without using a calculator. (No decimal answers.)

a. $(-2)^3$ b. -3^2 c. $(6)^0$

d. 8^{-1} e. $\frac{(3)^{-1}}{7}$ f. 3^{-2}

g. -4^{-2} h. -5^{-2}

2. Simplify (DO NOT EVALUATE.)

a. $y^{14} \times y^{-6}$ b. $5^8 \div 5^{-2}$

c. $\frac{(4x^2)^2}{2x}$ d) $(x^3y^5)(x^{-4}y^{-3})$

3. Evaluate the following without using a calculator.

a. $4^0 + 2^{-1}$ b. $3^{-2} + 2^{-3}$