

Laws of Indices - Assignment #1

Name: _____

Date: _____

1. Evaluate:

a) $2^6 =$

d) $3^{-4} =$

b) $219^0 =$

e) $-5^3 =$

c) $\left(\frac{1}{6}\right)^2 =$

f) $\left(\frac{5}{3}\right)^{-2} =$

2. Simplify

a) $7w^2 \times 4w^3 =$

g) $8v^4 \div 2v =$

b) $(3x^2y^3)(5xy^2) =$

h) $r^5s^4 \div r^2s^3 =$

c) $\frac{2}{3}h^3 \times \frac{5}{9}h =$

i) $21g^8h^2v \div 3gh =$

d) $3m^2 \times 4m \times 2 =$

j) $18y^{10}z^7 \div 9z^6 =$

e) $3p^2 \times p^4 \times 2p^6 =$

k) $\frac{12g^{10}}{4g^7} =$

f) $2r^5 \times 3r^2 \times 4r^3 =$

l) $\frac{6g^{11}h^9}{3g^4h^6} =$