

Laws of Indices - Assignment # 3

Name: _____

Date: _____

A) Evaluate:

1.) $169^{\frac{1}{2}} =$	4.) $81^{\frac{1}{2}} \times 27^{\frac{1}{3}} =$
2.) $3375^{\frac{1}{3}} =$	5.) $3^3 - 7^0 \times 4^{\frac{1}{2}} =$
3.) $(\frac{1}{3})^{-2} + 6^0 =$	6.) $36^{\frac{1}{2}} + 4 \times 5 - 3^2 =$

B) Simplify:

1) $(16x^4)^{\frac{1}{2}} =$

2) $(125w^6)^{\frac{1}{3}} =$

3) $\frac{8a^2 \times a^4}{2a} =$

4) $\frac{14y^{15}}{2y^3 \times 7y^4} =$

5) $15a^4 \div (a^2 \times 3a) =$