Math 10 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Exponents Laws Part I Assignment (NO CALCULATORS PERMITTED!)**

1. Use the exponent laws to simplify each expression. State answers using positive exponents.

a) b)

c) d)

e) f)

g) ( h)

i) j)

k) l)

2. Evaluate.

a) b)

**Exponents Laws Part II Assignment – Rational Exponents (NO CALCULATORS!)**

3. Use the exponent laws to simplify each expression. State answers using positive exponents.

a) b)

c) d)

e) f)

g) h)

4. Evaluate.

a) b)

5) A cable company with a reputation for poor customer service is losing subscribers by a declining factor of 0.97. The company had 2000 subscribers at the start of 2014. Using the function, , where S is the number of subscribers and t the number of years since 2014, determine the number of subscribers in 2020. **Use a calculator for this question!**