Worksheet 1-5 Negative Exponents

Write each expression using a positive exponent.

2.
$$\frac{1}{(-4)^{-3}}$$
 =

3.
$$z^{-2}$$
 =

3.
$$z^{-2} =$$
 4. $\frac{1}{9^{-5}} =$

Evaluate each expression.

5.
$$(-6)^{-5}$$
 =

$$6.8^{-4} =$$

7.
$$(-7)^{-3}$$

7.
$$(-7)^{-3} = 8. (-2)^{-2}(-7)^0 =$$

Simplify. Express using positive exponents.

9.
$$\frac{6^5}{6^7}$$
 =

10.
$$n^{-2} \cdot n^{-3} =$$

11.
$$\frac{k^{-4}}{k^{-6}}$$
 =

12. ROADS A state highway that is 4^4 miles long runs parallel to a smaller country road that is 4^2 miles long. How many times longer than the country road is the state highway? Write the answer as a number with a positive exponent.

Bonus:

1.
$$\frac{x^{-2}}{y^{-3}} =$$

$$2. \ \frac{a^{-2}b^2c^{-4}}{d^{-5}} =$$